**Supplementary Material B** - U-Pb data (LA-ICP-MS) of zircons from samples JBR-14, JBR-15, JBR-16, JBR-19, JBR-21 and JBR-25 - Ipu Formation (all data).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | Ratios c |  |  |  |  |  |  |  |  | Dates c |  |  |  |
| Identifier | 207Pb/206Pb | 2s (%) | 207Pb/235U | 2s (%) | 206Pb/238U | 2s (%) | Rho | 208Pb/232Th | *2s (%)* | 207Pb/206Pb | 2s | 2ssys | 206Pb/238U | 2s | 2ssys | % conc |
|  |  |  | Data for Wetherill plot c | | | | |  |  |  | abs | abs |  | abs | abs |  |
| 1.sSMPABC007 | 0.0600116 | 1.9785387 | 0.80918818 | 2.45620391 | 0.09779419 | 1.45544572 | 0.592559 | 0.01914 | 1.2539185 | 604 | 43 | 48.0 | 601 | 8 | 12.1 | 100.0 |
| 1.sSMPABC008 | 0.06085599 | 3.86685127 | 0.85478184 | 4.52783694 | 0.10187103 | 2.35558243 | 0.52024454 | 0.02822 | 4.25230333 | 634 | 83 | 86.0 | 625 | 14 | 16.7 | 99.8 |
| 1.sSMPABC010 | 0.0600846 | 3.98826059 | 0.80620884 | 4.66003647 | 0.09731574 | 2.41033552 | 0.51723534 | 0.02722 | 1.61645849 | 607 | 86 | 88.9 | 599 | 14 | 16.3 | 99.8 |
| 1.sSMPABC011 | 0.06041 | 2.05264029 | 0.83249363 | 2.43851618 | 0.09994724 | 1.3164456 | 0.53985518 | 0.02501 | 1.03958417 | 618 | 44 | 49.3 | 614 | 8 | 11.7 | 99.9 |
| 1.sSMPABC014 | 0.13557291 | 2.0080512 | 7.44913639 | 2.39266666 | 0.39850312 | 1.3009935 | 0.54374206 | 0.09506 | 0.88365243 | 2171 | 35 | 39.1 | 2162 | 24 | 36.7 | 99.9 |
| 1.sSMPABC015 | 0.18244224 | 2.24771439 | 12.8648013 | 2.64028151 | 0.51141848 | 1.38523157 | 0.52465298 | 0.10892 | 0.78957033 | 2675 | 37 | 40.7 | 2663 | 30 | 44.8 | 99.9 |
| 1.sSMPABC016 | 0.13140251 | 2.50841397 | 6.99840152 | 2.8840587 | 0.38627261 | 1.4232547 | 0.4934902 | 0.08756 | 0.91365921 | 2117 | 44 | 47.4 | 2106 | 26 | 37.4 | 99.9 |
| 1.sSMPABC018 | 0.1052295 | 1.97173064 | 4.47378018 | 2.373548 | 0.30834427 | 1.32136611 | 0.55670503 | 0.07001 | 0.82845308 | 1718 | 36 | 40.7 | 1733 | 20 | 30.5 | 100.5 |
| 1.sSMPABC019 | 0.05901563 | 4.21225464 | 0.77953688 | 4.92573917 | 0.09580063 | 2.55339328 | 0.51837769 | 0.02587 | 1.62350213 | 568 | 92 | 94.3 | 590 | 14 | 16.8 | 100.8 |
| 1.sSMPABC020 | 0.13529 | 2.09919432 | 7.42131968 | 2.44972355 | 0.39784524 | 1.26274647 | 0.51546489 | 0.10071 | 1.70787409 | 2168 | 37 | 40.6 | 2159 | 23 | 36.2 | 99.9 |
| 1.sSMPABC027 | 0.06016 | 2.16090426 | 0.81466185 | 2.55324991 | 0.09821284 | 1.35999188 | 0.5326513 | 0.02461 | 1.38155221 | 609 | 47 | 51.5 | 604 | 8 | 11.7 | 99.9 |
| 1.sSMPABC030 | 0.05990567 | 2.03810013 | 0.80858317 | 2.43071817 | 0.09789387 | 1.32459001 | 0.54493772 | 0.02656 | 1.05421687 | 600 | 44 | 49.2 | 602 | 8 | 11.6 | 100.1 |
| 1.sSMPABC031 | 0.1399836 | 2.50481985 | 7.88541175 | 2.87417654 | 0.40855067 | 1.4095277 | 0.49041097 | 0.10091 | 1.64503022 | 2227 | 43 | 46.7 | 2208 | 26 | 38.7 | 99.7 |
| 1.sSMPABC034 | 0.13313435 | 2.51175564 | 7.19603152 | 2.91704 | 0.39201407 | 1.48330912 | 0.50849804 | 0.08121 | 0.88659032 | 2140 | 44 | 47.3 | 2132 | 27 | 38.5 | 100.0 |
| 1.sSMPABC035 | 0.10676214 | 2.35881126 | 4.56329693 | 2.78854701 | 0.30999892 | 1.48728069 | 0.53335328 | 0.06789 | 1.5024304 | 1745 | 43 | 47.0 | 1741 | 23 | 32.4 | 100.0 |
| 1.sSMPABC037 | 0.13369014 | 2.51331891 | 7.24224134 | 2.86066058 | 0.39289124 | 1.36623828 | 0.47759538 | 0.09737 | 1.12971141 | 2147 | 44 | 47.3 | 2136 | 25 | 37.1 | 99.9 |
| 1.sSMPABC047 | 0.0593 | 2.09106239 | 0.76528175 | 2.49614224 | 0.09359775 | 1.36315229 | 0.54610361 | 0.02355 | 1.01910828 | 578 | 45 | 50.4 | 577 | 8 | 11.2 | 100.0 |
| 1.sSMPABC048 | 0.06054698 | 2.05589555 | 0.84611441 | 2.46580417 | 0.1013527 | 1.36142708 | 0.55212295 | 0.02578 | 0.93095423 | 623 | 44 | 49.3 | 622 | 8 | 12.1 | 100.0 |
| 1.sSMPABC049 | 0.05848085 | 3.49689711 | 0.7356618 | 4.10320825 | 0.09123537 | 2.14663191 | 0.52315939 | 0.0246 | 1.8699187 | 548 | 76 | 79.5 | 563 | 12 | 14.2 | 100.6 |
| 1.sSMPABC052 | 0.05879696 | 2.68541346 | 0.74343626 | 3.17756328 | 0.09170386 | 1.69866505 | 0.53458103 | 0.02407 | 1.57872871 | 560 | 59 | 62.5 | 566 | 9 | 12.3 | 100.3 |
| 1.sSMPABC054 | 0.13106106 | 2.03429948 | 6.68246876 | 2.41428105 | 0.36979582 | 1.30014561 | 0.53852289 | 0.0953 | 1.51101784 | 2112 | 36 | 39.8 | 2028 | 23 | 34.8 | 98.1 |
| 1.sSMPABC055 | 0.16465844 | 1.95556357 | 10.7212017 | 2.3864313 | 0.47223502 | 1.36778121 | 0.57314921 | 0.10975 | 0.78359909 | 2504 | 33 | 37.0 | 2493 | 28 | 42.2 | 99.9 |
| 1.sSMPABC056 | 0.13339878 | 2.55509087 | 7.15330601 | 2.91774592 | 0.38891408 | 1.40881223 | 0.48284267 | 0.09746 | 1.70326288 | 2143 | 45 | 48.0 | 2118 | 26 | 37.4 | 99.5 |
| 1.sSMPABC057 | 0.07061586 | 2.04379089 | 1.53409674 | 2.502266 | 0.15756119 | 1.44369454 | 0.57695487 | 0.03564 | 1.2345679 | 946 | 42 | 46.6 | 943 | 13 | 18.4 | 100.0 |
| 1.sSMPABC059 | 0.05924215 | 2.16587079 | 0.75737019 | 2.57904979 | 0.09272058 | 1.4001791 | 0.54290503 | 0.02538 | 1.2608353 | 576 | 47 | 51.9 | 572 | 8 | 11.3 | 99.9 |
| 1.sSMPABC069 | 0.25815252 | 2.04540272 | 23.0261928 | 2.4304633 | 0.64691094 | 1.31281361 | 0.54014953 | 0.16383 | 1.5992187 | 3235 | 32 | 35.9 | 3216 | 33 | 50.8 | 99.8 |
| 1.sSMPABC070 | 0.06122662 | 2.02651989 | 0.88590517 | 2.45594361 | 0.10494111 | 1.38739905 | 0.56491487 | 0.02754 | 0.79883805 | 647 | 44 | 48.6 | 643 | 9 | 12.6 | 99.9 |
| 1.sSMPABC071 | 0.1335996 | 2.0669816 | 7.01002251 | 2.4929379 | 0.38055109 | 1.39367373 | 0.55904871 | 0.09392 | 1.51192504 | 2146 | 36 | 40.2 | 2079 | 25 | 36.6 | 98.5 |
| 1.sSMPABC076 | 0.06068063 | 2.04411992 | 0.85557119 | 2.46884703 | 0.10225977 | 1.38447802 | 0.56077918 | 0.02674 | 1.12191473 | 628 | 44 | 49.1 | 628 | 8 | 12.3 | 100.1 |
| 1.sSMPABC077 | 0.05843 | 2.08796851 | 0.71020821 | 2.5025067 | 0.08815532 | 1.3794663 | 0.55123381 | 0.02408 | 1.24584718 | 546 | 46 | 50.6 | 545 | 7 | 10.7 | 100.0 |
| 1.sSMPABC079 | 0.05897 | 2.17059522 | 0.73614186 | 2.58793385 | 0.09053763 | 1.40922603 | 0.54453711 | 0.02574 | 1.32090132 | 566 | 47 | 52.1 | 559 | 8 | 11.1 | 99.8 |
| 1.sSMPABC087 | 0.05918 | 2.06150727 | 0.74860486 | 2.49895357 | 0.09174373 | 1.41242938 | 0.56520833 | 0.0245 | 1.2244898 | 574 | 45 | 49.9 | 566 | 8 | 11.2 | 99.8 |
| 1.sSMPABC090 | 0.10691432 | 2.73966604 | 4.56671597 | 3.1473877 | 0.3097896 | 1.54928349 | 0.49224425 | 0.07828 | 0.94532448 | 1747 | 50 | 53.4 | 1740 | 24 | 33.1 | 99.9 |
| 1.sSMPABC091 | 0.05953768 | 3.93487498 | 0.7573844 | 4.6972868 | 0.09226206 | 2.56539708 | 0.54614444 | 0.02671 | 1.04829652 | 587 | 85 | 88.1 | 569 | 14 | 16.3 | 99.4 |
| 1.sSMPABC092 | 0.05785052 | 4.10459847 | 0.66261586 | 4.94751773 | 0.08307174 | 2.76228223 | 0.55831679 | 0.02474 | 1.45513339 | 524 | 90 | 92.7 | 514 | 14 | 15.6 | 99.7 |
| 1.sSMPABC093 | 0.154996 | 2.01365958 | 9.20185001 | 2.45158721 | 0.43057953 | 1.39837583 | 0.57039612 | 0.10884 | 1.15766262 | 2402 | 34 | 38.3 | 2308 | 27 | 40.0 | 98.0 |
| 1.sSMPABC094 | 0.12518452 | 1.93328285 | 6.34584891 | 2.45630777 | 0.36765274 | 1.5152113 | 0.61686541 | 0.08565 | 1.54115587 | 2031 | 34 | 38.6 | 2018 | 26 | 37.2 | 99.8 |
| 1.sSMPABC095 | 0.05974 | 2.04218279 | 0.77695368 | 2.48509233 | 0.0943254 | 1.41604142 | 0.56981441 | 0.02599 | 1.07733744 | 594 | 44 | 49.3 | 581 | 8 | 11.5 | 99.6 |
| 1.sSMPABC096 | 0.05927639 | 3.95222024 | 0.75544538 | 4.74199769 | 0.09243151 | 2.62040021 | 0.55259416 | 0.02462 | 1.2997563 | 577 | 86 | 88.6 | 570 | 14 | 16.5 | 99.8 |
| 1.sSMPABC097 | 0.05781859 | 2.36197505 | 0.6729777 | 2.76151789 | 0.08441739 | 1.43075326 | 0.51810393 | 0.02439 | 2.0500205 | 523 | 52 | 56.3 | 522 | 7 | 10.5 | 100.0 |
| 1.sSMPABC098 | 0.05942337 | 2.09832284 | 0.77389744 | 2.55668863 | 0.09445498 | 1.46071832 | 0.57133211 | 0.02604 | 1.07526882 | 583 | 46 | 50.5 | 582 | 8 | 11.7 | 100.0 |
| 1.sSMPABC099 | 0.05884305 | 4.16843645 | 0.724529 | 4.96627035 | 0.08930162 | 2.69962566 | 0.54359217 | 0.02642 | 2.27100681 | 561 | 91 | 93.4 | 551 | 14 | 16.4 | 99.7 |
| 1.sSMPABC100 | 0.05876 | 2.21238938 | 0.70719341 | 2.67709126 | 0.08728812 | 1.50736554 | 0.56306094 | 0.02588 | 1.62287481 | 558 | 48 | 53.0 | 539 | 8 | 11.1 | 99.4 |
| 1.sSMPABC107 | 0.13348231 | 2.50520813 | 7.22456179 | 2.92015486 | 0.39254237 | 1.50041216 | 0.51381253 | 0.10042 | 1.01573392 | 2144 | 44 | 47.2 | 2135 | 27 | 38.8 | 99.9 |
| 1.sSMPABC108 | 0.09284587 | 1.85344171 | 3.29957952 | 2.38692665 | 0.25774766 | 1.50405208 | 0.63012078 | 0.05889 | 1.32450331 | 1485 | 35 | 39.9 | 1478 | 20 | 28.2 | 99.9 |
| 1.sSMPABC110 | 0.06042244 | 3.94782471 | 0.8299247 | 4.65469814 | 0.0996183 | 2.46594706 | 0.52977593 | 0.02808 | 1.63817664 | 619 | 85 | 87.9 | 612 | 14 | 16.9 | 99.8 |
| 1.sSMPABC111 | 0.10367358 | 2.92541895 | 4.24605299 | 3.30453501 | 0.29704077 | 1.53683948 | 0.46506981 | 0.078 | 2.41025641 | 1691 | 54 | 57.0 | 1677 | 23 | 31.9 | 99.7 |
| 1.sSMPABC112 | 0.13173428 | 2.19087217 | 7.08722415 | 2.59088833 | 0.39018996 | 1.38303344 | 0.53380666 | 0.05084 | 2.36034618 | 2121.21173 | 38.4 | 42.2 | 2124 | 25 | 37.1 | 100.2 |
| 1.sSMPABC113 | 0.12545189 | 2.26332615 | 6.41129958 | 2.66198036 | 0.37065305 | 1.40124737 | 0.52639283 | 0.07764 | 3.06543019 | 2035.18348 | 40 | 43.8 | 2032 | 25 | 36.0 | 100.1 |
| 1.sSMPABC114 | 0.06077691 | 1.85610888 | 0.86127227 | 2.45614948 | 0.1027781 | 1.60858014 | 0.65491948 | 0.01608 | 1.99004975 | 631.347924 | 40 | 45.5 | 631 | 10 | 13.3 | 100.0 |
| 1.sSMPABC115 | 0.06106 | 2.12905339 | 0.8781235 | 2.59912092 | 0.10430317 | 1.49082569 | 0.57358843 | 0.02969 | 1.34725497 | 641.348323 | 45.8 | 50.6 | 640 | 9 | 12.9 | 100.0 |
| 1.sSMPABC116 | 0.12865863 | 2.03700946 | 6.7281345 | 2.47073779 | 0.37927521 | 1.39826239 | 0.56592909 | 0.06602 | 1.45410482 | 2079.72486 | 35.9 | 40.0 | 2073 | 25 | 36.6 | 100.0 |
| 1.sSMPABC117 | 0.12553613 | 2.00746744 | 6.39386548 | 2.46794676 | 0.36939711 | 1.4355611 | 0.58168236 | 0.09016 | 1.53061224 | 2036.37095 | 35.5 | 39.7 | 2027 | 25 | 36.3 | 99.9 |
| 1.sSMPABC118 | 0.06120208 | 2.0315477 | 0.88243785 | 2.48577208 | 0.10457231 | 1.43243736 | 0.5762545 | 0.02715 | 1.03130755 | 646.343663 | 43.6 | 48.7 | 641 | 9 | 12.7 | 99.9 |
| 1.sSMPABC119 | 0.06065712 | 2.14325161 | 0.84698664 | 2.59144151 | 0.10127296 | 1.45672291 | 0.56212841 | 0.00901 | 1.3318535 | 627.09721 | 46.2 | 51.0 | 622 | 9 | 12.5 | 99.9 |
| 1.sSMPABC120 | 0.13287962 | 2.80166994 | 7.15267791 | 3.18660884 | 0.39039929 | 1.51826265 | 0.4764509 | 0.04611 | 3.25309044 | 2136.36579 | 49 | 52.1 | 2125 | 28 | 38.9 | 99.9 |
| 1.sSMPABC127 | 0.12955034 | 2.13743243 | 6.79969294 | 2.55345585 | 0.3806707 | 1.39696793 | 0.54708913 | 0.08948 | 1.96691998 | 2091.87429 | 37.6 | 41.5 | 2079 | 25 | 36.7 | 99.8 |
| 1.sSMPABC128 | 0.06242 | 2.17878885 | 0.95739031 | 2.62805083 | 0.11124077 | 1.46953405 | 0.55917261 | 0.03368 | 2.13776722 | 688.529809 | 46.5 | 51.2 | 680 | 10 | 13.6 | 99.8 |
| 1.sSMPABC129 | 0.10509 | 2.32181939 | 4.36631412 | 2.74381297 | 0.3013369 | 1.46207535 | 0.53286261 | 0.08501 | 2.82319727 | 1715.88997 | 42.7 | 46.5 | 1698 | 22 | 31.5 | 99.7 |
| 1.sSMPABC130 | 0.06587924 | 3.77668516 | 1.07844467 | 4.37813389 | 0.1187266 | 2.21465699 | 0.50584497 | 0.01468 | 5.72207084 | 802.541156 | 79.1 | 81.8 | 723 | 15 | 18.4 | 97.4 |
| 1.sSMPABC152 | 0.06062997 | 2.22679667 | 0.85169058 | 2.67177835 | 0.101881 | 1.47640649 | 0.55259318 | 0.03152 | 1.77664975 | 626.132372 | 48 | 52.7 | 625 | 9 | 12.6 | 100.0 |
| 1.sSMPABC154 | 0.06131921 | 4.07702545 | 0.88682357 | 4.75441119 | 0.10489128 | 2.44587188 | 0.51444265 | 0.03119 | 1.79544726 | 650.450247 | 87.5 | 90.1 | 643 | 15 | 17.6 | 99.8 |
| 1.sSMPABC155 | 0.12928502 | 2.63639203 | 6.54607084 | 3.06751783 | 0.36722413 | 1.56815265 | 0.51121224 | 0.10219 | 1.83971034 | 2088.26984 | 46.4 | 49.6 | 2016 | 27 | 37.8 | 98.4 |
| 1.sSMPABC157 | 0.13446459 | 2.61985919 | 7.32244918 | 3.03595772 | 0.39495458 | 1.53407207 | 0.50530087 | 0.11341 | 2.23966141 | 2157.0812 | 45.7 | 49.0 | 2146 | 28 | 39.4 | 99.9 |
| 1.sSMPABC158 | 0.06190256 | 3.8359179 | 0.93192818 | 4.49236943 | 0.1091874 | 2.33818669 | 0.52047961 | 0.02742 | 1.60466813 | 670.74423 | 82.1 | 84.8 | 668 | 15 | 17.7 | 100.0 |
| 1.sSMPABC167 | 0.06078993 | 2.11188536 | 0.86432177 | 2.62216516 | 0.10311991 | 1.55424912 | 0.59273502 | 0.0285 | 1.40350877 | 631.809303 | 45.5 | 50.4 | 633 | 9 | 13.0 | 100.0 |
| 1.sSMPABC168 | 0.12527052 | 1.88408638 | 6.36222118 | 2.38708679 | 0.36834824 | 1.46574277 | 0.61402994 | 0.08705 | 0.71223435 | 2032.62347 | 33.3 | 37.8 | 2022 | 25 | 36.5 | 99.7 |
| 1.sSMPABC169 | 0.06568705 | 3.75183136 | 1.18360088 | 4.28941354 | 0.13068454 | 2.07914164 | 0.48471466 | 0.02349 | 2.89484887 | 796.419267 | 78.7 | 81.4 | 792 | 16 | 19.1 | 99.9 |
| 1.sSMPABC170 | 0.06024697 | 2.05450118 | 0.82811494 | 2.50859764 | 0.09969058 | 1.43947456 | 0.57381644 | 0.03072 | 1.04166667 | 612.456288 | 44.4 | 49.4 | 613 | 8 | 12.2 | 100.0 |
| 1.sSMPABC171 | 0.06547 | 2.13838399 | 1.1693108 | 2.63735731 | 0.12953477 | 1.54368632 | 0.58531558 | 0.03799 | 1.52671756 | 789.47637 | 44.9 | 49.6 | 785 | 11 | 15.9 | 99.9 |
| 1.sSMPABC172 | 0.06098224 | 2.24487935 | 0.87663953 | 2.74506168 | 0.10425969 | 1.57983555 | 0.57551914 | 0.03188 | 2.00752823 | 638.607559 | 48.3 | 52.9 | 639 | 10 | 13.3 | 100.0 |
| 1.sSMPABC173 | 0.06083 | 2.26861746 | 0.86271123 | 2.75050962 | 0.10285996 | 1.55520995 | 0.56542611 | 0.03071 | 1.43275806 | 633.228221 | 48.8 | 53.4 | 631 | 9 | 13.0 | 99.9 |
| 1.sSMPABC174 | 0.06024455 | 2.2734203 | 0.82999184 | 2.70644853 | 0.09992053 | 1.46847668 | 0.54258437 | 0.02866 | 1.67480809 | 612.369575 | 49.1 | 53.7 | 614 | 9 | 12.3 | 100.1 |
| 1.sSMPABC175 | 0.12605439 | 2.56468126 | 6.44860279 | 2.98716993 | 0.37102772 | 1.53153329 | 0.51270377 | 0.06162 | 0.90879585 | 2043.65586 | 45.3 | 48.7 | 2034 | 27 | 37.5 | 99.8 |
| 1.sSMPABC176 | 0.12991681 | 2.02112226 | 6.86236067 | 2.49153158 | 0.38309537 | 1.45698127 | 0.58477335 | 0.10833 | 1.01541586 | 2096.83835 | 35.5 | 39.6 | 2091 | 26 | 37.5 | 99.9 |
| 1.sSMPABC178 | 0.12617197 | 2.45179421 | 6.44139867 | 2.94198189 | 0.37026787 | 1.62602661 | 0.5526977 | 0.09797 | 0.95947739 | 2045.30349 | 43.3 | 46.8 | 2031 | 28 | 38.7 | 99.7 |
| 1.sSMPABC179 | 0.12747351 | 2.56085694 | 6.61292991 | 2.9730391 | 0.37624671 | 1.51028913 | 0.50799504 | 0.10658 | 1.12591481 | 2063.42049 | 45.2 | 48.5 | 2059 | 27 | 37.7 | 99.9 |
| 1.sSMPABC187 | 0.06081941 | 2.20676793 | 0.86641769 | 2.71728639 | 0.10331987 | 1.58550328 | 0.58348773 | 0.0307 | 1.17263844 | 632.853183 | 47.5 | 52.2 | 634 | 10 | 13.2 | 100.0 |
| 1.sSMPABC188 | 0.06014797 | 2.71504363 | 0.83711866 | 3.2673161 | 0.10094034 | 1.8176613 | 0.55631633 | 0.03051 | 1.7699115 | 608.902038 | 58.7 | 62.6 | 620 | 11 | 14.0 | 100.4 |
| 1.sSMPABC189 | 0.06056055 | 2.0604562 | 0.84937256 | 2.54666688 | 0.10172018 | 1.49667379 | 0.58769908 | 0.03127 | 0.89542693 | 623.662142 | 44.4 | 49.4 | 624 | 9 | 12.6 | 100.0 |
| 1.sSMPABC191 | 0.06111 | 2.06185567 | 0.88091919 | 2.53378913 | 0.10454963 | 1.47269771 | 0.58122347 | 0.03358 | 1.01250744 | 643.10807 | 44.3 | 49.3 | 641 | 9 | 12.9 | 99.9 |
| 1.sSMPABC192 | 0.06027188 | 3.9576865 | 0.82530003 | 4.66488153 | 0.09931065 | 2.46937994 | 0.52935534 | 0.03102 | 1.16054159 | 613.349309 | 85.5 | 88.2 | 610 | 14 | 16.9 | 99.9 |
| 1.sSMPABC193 | 0.06229 | 2.05490448 | 0.95941126 | 2.53574639 | 0.11170824 | 1.48572451 | 0.58591211 | 0.02166 | 1.20036934 | 684.080171 | 43.9 | 48.8 | 683 | 10 | 13.7 | 100.0 |
| 1.sSMPABC194 | 0.05909696 | 2.04194869 | 0.82273548 | 2.59875641 | 0.10097033 | 1.60747643 | 0.61855602 | 0.03092 | 1.81112549 | 570.670013 | 44.4 | 49.5 | 620 | 10 | 13.0 | 101.7 |
| 1.sSMPABC195 | 0.06189168 | 2.00397073 | 0.93663891 | 2.51057566 | 0.10975862 | 1.51231329 | 0.6023771 | 0.03226 | 0.86794792 | 670.368041 | 42.9 | 48.0 | 671 | 10 | 13.6 | 100.0 |
| 1.sSMPABC197 | 0.12777336 | 1.95686126 | 6.64028686 | 2.46003676 | 0.37691657 | 1.49079673 | 0.60600587 | 0.08527 | 0.79746687 | 2067.56291 | 34.5 | 38.8 | 2062 | 26 | 37.5 | 99.9 |
| 1.sSMPABC198 | 0.12895 | 2.09383482 | 6.75120899 | 2.53392411 | 0.37971603 | 1.42710445 | 0.56319937 | 0.09816 | 1.30399348 | 2083.70577 | 36.8 | 40.9 | 2075 | 25 | 36.9 | 99.8 |
| 1.sSMPABC199 | 0.13356775 | 2.52766982 | 7.24762044 | 2.94226194 | 0.39354334 | 1.50591852 | 0.5118234 | 0.09953 | 1.18557219 | 2145.39559 | 44.2 | 47.5 | 2139 | 27 | 38.9 | 99.9 |
| 1.sSMPABC200 | 0.11956285 | 2.54924507 | 5.80928638 | 3.00234184 | 0.35239135 | 1.58600319 | 0.52825537 | 0.07818 | 0.7930417 | 1949.69904 | 45.6 | 49.0 | 1946 | 27 | 36.8 | 99.9 |
| 1.sSMPABC207 | 0.06024465 | 2.18765021 | 0.82683722 | 2.63157173 | 0.09954061 | 1.46265386 | 0.55580999 | 0.02741 | 1.31338927 | 612.372843 | 47.3 | 52.0 | 612 | 9 | 12.3 | 100.0 |
| 1.sSMPABC208 | 0.06041098 | 2.06370323 | 0.83544923 | 2.54005558 | 0.10030046 | 1.48088195 | 0.58301163 | 0.02619 | 0.99274532 | 618.326942 | 44.5 | 49.5 | 616 | 9 | 12.4 | 99.9 |
| 1.sSMPABC209 | 0.10410579 | 1.96568798 | 4.32605891 | 2.46487207 | 0.30138129 | 1.4871668 | 0.60334441 | 0.07755 | 0.95422308 | 1698.57199 | 36.2 | 40.7 | 1698 | 22 | 31.6 | 100.0 |
| 1.sSMPABC210 | 0.06082064 | 4.03289935 | 0.84228841 | 4.75159557 | 0.10044043 | 2.51264468 | 0.5288002 | 0.02866 | 1.88415911 | 632.896799 | 86.8 | 89.5 | 617 | 15 | 17.3 | 99.5 |
| 1.sSMPABC212 | 0.05945439 | 3.95800984 | 0.77550311 | 4.71164072 | 0.09460157 | 2.55611354 | 0.54251028 | 0.02585 | 1.16054159 | 583.775312 | 85.9 | 88.6 | 583 | 14 | 16.5 | 100.0 |
| 1.sSMPABC213 | 0.0854 | 2.01405152 | 2.68616752 | 2.50016123 | 0.22812556 | 1.48135162 | 0.59250244 | 0.06131 | 1.01125428 | 1324.63671 | 39 | 43.6 | 1325 | 18 | 25.3 | 100.0 |
| 1.sSMPABC214 | 0.06149664 | 2.27764192 | 0.9061606 | 2.75701058 | 0.10686918 | 1.55352973 | 0.56348341 | 0.02971 | 1.81756984 | 656.650374 | 48.8 | 53.4 | 655 | 10 | 13.5 | 99.9 |
| 1.sSMPABC215 | 0.12818399 | 1.99760989 | 6.68954632 | 2.5207448 | 0.37849627 | 1.53743588 | 0.60991334 | 0.08854 | 0.92613508 | 2073.21669 | 35.2 | 39.4 | 2069 | 27 | 38.2 | 99.9 |
| 1.sSMPABC217 | 0.06104235 | 2.03179184 | 0.88112204 | 2.53093251 | 0.10468961 | 1.50911938 | 0.5962701 | 0.02977 | 0.87336245 | 640.726561 | 43.7 | 48.7 | 642 | 9 | 13.0 | 100.0 |
| 1.sSMPABC219 | 0.1353285 | 1.99565938 | 7.43158899 | 2.49727026 | 0.39828241 | 1.50123362 | 0.60114984 | 0.10061 | 0.75539211 | 2168.25009 | 34.8 | 38.9 | 2161 | 28 | 39.1 | 99.8 |
| 1.sSMPABC220 | 0.12266236 | 1.93211111 | 6.16144445 | 2.45540911 | 0.36430903 | 1.51524933 | 0.61710667 | 0.08703 | 1.12604849 | 1995.3086 | 34.3 | 38.7 | 2003 | 26 | 36.8 | 100.2 |
| 1.sSMPABC227 | 0.11856705 | 1.88950825 | 5.72657859 | 2.45655839 | 0.35029176 | 1.56985276 | 0.63904557 | 0.08231 | 1.72518528 | 1934.74142 | 33.8 | 38.3 | 1936 | 26 | 36.5 | 100.0 |
| 1.sSMPABC228 | 0.06567341 | 2.1093196 | 1.19123142 | 2.5987829 | 0.13155437 | 1.51803934 | 0.58413472 | 0.03895 | 1.33504493 | 795.983799 | 44.2 | 49.0 | 797 | 11 | 16.0 | 100.0 |
| 1.sSMPABC229 | 0.05922704 | 2.14144176 | 0.76551603 | 2.66483336 | 0.09374174 | 1.58605297 | 0.59517904 | 0.0257 | 1.40077821 | 575.45178 | 46.6 | 51.4 | 578 | 9 | 12.1 | 100.1 |
| 1.sSMPABC230 | 0.06779474 | 3.72330201 | 1.32438168 | 4.27890295 | 0.1416824 | 2.10856174 | 0.49278092 | 0.04586 | 2.35499346 | 862.285295 | 77.2 | 80.0 | 854 | 17 | 20.8 | 99.7 |
| 1.sSMPABC231 | 0.06536474 | 2.13799588 | 1.16517816 | 2.58879629 | 0.12928481 | 1.45973966 | 0.56386811 | 0.02482 | 1.85334408 | 786.098369 | 44.9 | 49.6 | 784 | 11 | 15.5 | 99.9 |
| 1.sSMPABC232 | 0.06073155 | 1.99326961 | 0.86156616 | 2.53266469 | 0.10288996 | 1.56245534 | 0.61692152 | 0.02559 | 1.25048847 | 629.739758 | 42.9 | 48.1 | 631 | 9 | 13.1 | 100.1 |
| 1.sSMPABC233 | 0.12887298 | 2.49641458 | 6.77844373 | 2.95876551 | 0.38147569 | 1.58814597 | 0.53675966 | 0.09647 | 0.82927335 | 2082.65445 | 43.9 | 47.3 | 2083 | 28 | 39.0 | 100.0 |
| 1.sSMPABC234 | 0.1314256 | 2.47183993 | 7.03246258 | 2.93660045 | 0.3880844 | 1.58544301 | 0.53989061 | 0.09582 | 1.00187852 | 2117.10062 | 43.3 | 46.8 | 2114 | 29 | 39.5 | 99.9 |
| 1.sSMPABC235 | 0.06040452 | 3.9489959 | 0.8346938 | 4.69679655 | 0.10022048 | 2.54270116 | 0.54136924 | 0.03013 | 1.32758048 | 618.096285 | 85.2 | 88.0 | 616 | 15 | 17.4 | 99.9 |
| 1.sSMPABC237 | 0.13323255 | 2.50990429 | 7.22061623 | 2.93538879 | 0.39306343 | 1.52213265 | 0.5185455 | 0.10826 | 1.34860521 | 2141.00403 | 43.9 | 47.3 | 2137 | 28 | 39.0 | 99.9 |
| 1.sSMPABC238 | 0.06050467 | 2.17537455 | 0.82965525 | 2.67444071 | 0.09945063 | 1.55575662 | 0.58171289 | 0.03133 | 1.14905841 | 621.670893 | 46.9 | 51.7 | 611 | 9 | 12.6 | 99.6 |
| 1.sSMPABC247 | 0.06067529 | 3.93137339 | 0.84671598 | 4.63644014 | 0.10121028 | 2.45782026 | 0.53010935 | 0.03238 | 1.79122915 | 627.742619 | 84.7 | 87.4 | 621 | 15 | 17.1 | 99.8 |
| 1.sSMPABC248 | 0.0619321 | 3.81677759 | 0.9353723 | 4.49398111 | 0.10953866 | 2.37235643 | 0.5278964 | 0.03436 | 0.93131548 | 671.764829 | 81.7 | 84.4 | 670 | 15 | 17.9 | 99.9 |
| 1.sSMPABC249 | 0.06047 | 2.51364313 | 0.83993332 | 2.96264826 | 0.10074038 | 1.56808257 | 0.52928408 | 0.03286 | 1.88679245 | 620.434409 | 54.2 | 58.4 | 619 | 9 | 12.8 | 99.9 |
| 1.sSMPABC251 | 0.06084 | 2.03813281 | 0.86637559 | 2.53664786 | 0.10327988 | 1.51016457 | 0.59533867 | 0.03213 | 1.24494242 | 633.582136 | 43.9 | 48.9 | 634 | 9 | 12.9 | 100.0 |
| 1.sSMPABC254 | 0.06093907 | 3.91435593 | 0.87022255 | 4.61709708 | 0.10356982 | 2.44855123 | 0.53032267 | 0.06967 | 1.98076647 | 637.084093 | 84.2 | 87.0 | 635 | 15 | 17.4 | 99.9 |
| 1.sSMPABC256 | 0.06056931 | 2.14630493 | 0.83020763 | 2.63507033 | 0.09941063 | 1.5287154 | 0.58014216 | 0.01575 | 1.77777778 | 623.973928 | 46.3 | 51.1 | 611 | 9 | 12.5 | 99.6 |
| 1.sSMPABC257 | 0.06065258 | 2.05451543 | 0.85476026 | 2.56206384 | 0.10221009 | 1.53073102 | 0.59746014 | 0.02075 | 1.34939759 | 626.935904 | 44.3 | 49.3 | 627 | 9 | 12.8 | 100.0 |
| 1.sSMPABC258 | 0.06019 | 1.96045855 | 0.81911744 | 2.49280951 | 0.09870077 | 1.53970827 | 0.61765982 | 0.03136 | 1.2755102 | 610.411839 | 42.4 | 47.6 | 607 | 9 | 12.5 | 99.9 |
| 1.sSMPABC259 | 0.05981 | 2.14011035 | 0.78385183 | 2.6340993 | 0.09505148 | 1.53571053 | 0.58301163 | 0.1447 | 119.91707 | 596.707777 | 46.4 | 51.2 | 585 | 9 | 12.0 | 99.6 |
| 1.sSMPABC260 | 0.05985073 | 2.86222044 | 0.8206883 | 3.34939876 | 0.09945063 | 1.73958795 | 0.5193732 | 0.03106 | 2.31809401 | 598.18227 | 62 | 65.7 | 611 | 10 | 13.4 | 100.5 |
| 1.sSMPABC268 | 0.06026 | 2.05774975 | 0.82654954 | 2.56281339 | 0.09948062 | 1.52763819 | 0.59607859 | 0.03193 | 1.25274037 | 612.923422 | 44.5 | 49.5 | 611 | 9 | 12.5 | 99.9 |
| 1.sSMPABC270 | 0.06027632 | 2.31593176 | 0.83499956 | 2.84461543 | 0.10047043 | 1.65175575 | 0.58066048 | 0.03181 | 1.38321283 | 613.508366 | 50 | 54.5 | 617 | 10 | 13.2 | 100.1 |
| 1.sSMPABC271 | 0.05977076 | 4.06536063 | 0.79108283 | 4.82777676 | 0.0959913 | 2.60389543 | 0.53935705 | 0.03042 | 1.77514793 | 595.286047 | 88.1 | 90.7 | 591 | 15 | 17.0 | 99.8 |
| 1.sSMPABC272 | 0.06832 | 2.07845433 | 1.3711851 | 2.56970307 | 0.14556164 | 1.51109279 | 0.58804179 | 0.03434 | 1.22306348 | 878.277304 | 43 | 47.8 | 876 | 12 | 17.5 | 99.9 |
| 1.sSMPABC273 | 0.0607312 | 3.8747969 | 0.85754259 | 4.59205003 | 0.10241005 | 2.46431987 | 0.53664918 | 0.03404 | 1.17508813 | 629.727219 | 83.5 | 86.2 | 629 | 15 | 17.3 | 100.0 |
| 1.sSMPABC274 | 0.06131 | 2.31609852 | 0.89622636 | 2.80612608 | 0.10601935 | 1.58430781 | 0.56458896 | 0.03476 | 2.07134638 | 650.127573 | 49.7 | 54.2 | 650 | 10 | 13.5 | 100.0 |
| 1.sSMPABC275 | 0.12844 | 2.13329181 | 6.7036149 | 2.58988671 | 0.37853626 | 1.46852962 | 0.56702466 | 0.10937 | 2.02980708 | 2076.73061 | 37.6 | 41.5 | 2069 | 26 | 37.3 | 99.8 |
| 1.sSMPABC276 | 0.06217 | 2.15538041 | 0.95122093 | 2.67585489 | 0.11096838 | 1.58572844 | 0.59260629 | 0.01731 | 1.6175621 | 679.961662 | 46 | 50.8 | 678 | 10 | 14.1 | 99.9 |
| 1.sSMPABC277 | 0.06043328 | 3.89389869 | 0.84517156 | 4.62095371 | 0.10143024 | 2.48812503 | 0.53844405 | 0.03097 | 1.22699387 | 619.123505 | 84 | 86.8 | 623 | 15 | 17.3 | 100.1 |
| 1.sSMPABC278 | 0.06024471 | 2.15617582 | 0.83281768 | 2.64305592 | 0.10026047 | 1.52861062 | 0.57834971 | 0.03167 | 1.57878118 | 612.375213 | 46.6 | 51.4 | 616 | 9 | 12.6 | 100.1 |
| 1.sSMPABC279 | 0.06079333 | 2.60361966 | 0.86990129 | 3.15003227 | 0.10377978 | 1.77309559 | 0.56288172 | 0.03369 | 1.48411992 | 631.929778 | 56.1 | 60.1 | 637 | 11 | 14.1 | 100.2 |
| 1.sSMPABC280 | 0.06108 | 2.12835625 | 0.88158134 | 2.62015676 | 0.10467961 | 1.52817574 | 0.58323829 | 0.03247 | 1.29350169 | 642.052456 | 45.8 | 50.6 | 642 | 9 | 13.1 | 100.0 |
| 1.sSMPABC289 | 0.06079935 | 2.13818346 | 0.86034889 | 2.61200373 | 0.10263001 | 1.50024497 | 0.57436556 | 0.02837 | 1.33944307 | 632.143133 | 46 | 50.9 | 630 | 9 | 12.8 | 99.9 |
| 1.sSMPABC290 | 0.06041549 | 2.90467991 | 0.84433984 | 3.42394957 | 0.10136025 | 1.81280592 | 0.52944878 | 0.02638 | 2.19863533 | 618.488248 | 62.7 | 66.3 | 622 | 11 | 14.0 | 100.1 |
| 1.sSMPABC292 | 0.06021854 | 3.89038537 | 0.82025301 | 4.63416681 | 0.09879076 | 2.51801583 | 0.54335891 | 0.02029 | 1.47856087 | 611.436492 | 84.1 | 86.8 | 607 | 15 | 17.0 | 99.9 |
| 1.sSMPABC294 | 0.06075487 | 2.41061932 | 0.86507952 | 2.92103339 | 0.10326988 | 1.64965164 | 0.56474933 | 0.03698 | 2.37966468 | 630.566607 | 51.9 | 56.3 | 634 | 10 | 13.5 | 100.1 |
| 1.sSMPABC295 | 0.06075219 | 3.87345789 | 0.85532657 | 4.6078115 | 0.10211011 | 2.49564637 | 0.54161208 | 0.03395 | 1.17820324 | 630.47178 | 83.4 | 86.2 | 627 | 15 | 17.4 | 99.9 |
| 1.sSMPABC296 | 0.06092 | 2.06828628 | 0.8658352 | 2.57416823 | 0.10307992 | 1.53249273 | 0.59533511 | 0.03041 | 1.31535679 | 636.410609 | 44.5 | 49.5 | 632 | 9 | 12.9 | 99.9 |
| 1.sSMPABC297 | 0.06166256 | 2.20182198 | 0.88684436 | 2.65908175 | 0.10430968 | 1.49087079 | 0.56067129 | 0.04192 | 1.6221374 | 662.426124 | 47.2 | 51.9 | 640 | 9 | 12.9 | 99.2 |
| 1.sSMPABC298 | 0.06089 | 2.10215142 | 0.86843062 | 2.65627914 | 0.10343985 | 1.62381597 | 0.61131225 | 0.03695 | 1.67794317 | 635.350523 | 45.2 | 50.1 | 635 | 10 | 13.4 | 100.0 |
| 1.sSMPABC300 | 0.06063878 | 3.48227032 | 0.86384448 | 4.05930249 | 0.10331987 | 2.08608008 | 0.51390112 | 0.03637 | 3.07946109 | 626.445276 | 75.1 | 78.1 | 634 | 13 | 15.5 | 100.3 |
| 1.sSMPABC307 | 0.06061 | 2.17785844 | 0.84655688 | 2.66714649 | 0.10130027 | 1.53967627 | 0.57727473 | 0.0333 | 1.44144144 | 625.422052 | 47 | 51.7 | 622 | 9 | 12.8 | 99.9 |
| 1.sSMPABC308 | 0.06149441 | 2.18061909 | 0.90561901 | 2.71100783 | 0.10680919 | 1.61073394 | 0.59414581 | 0.03811 | 1.62686959 | 656.572355 | 46.8 | 51.5 | 654 | 10 | 13.7 | 99.9 |
| 1.sSMPABC311 | 0.06057026 | 4.01170028 | 0.84216085 | 4.72833431 | 0.10084036 | 2.5026798 | 0.52929417 | 0.03243 | 1.5417823 | 624.007711 | 86.5 | 89.2 | 619 | 15 | 17.3 | 99.8 |
| 1.sSMPABC312 | 0.13498456 | 2.01505415 | 7.44005502 | 2.50647872 | 0.39975213 | 1.49063488 | 0.59471276 | 0.12431 | 1.33537125 | 2163.81368 | 35.1 | 39.3 | 2168 | 28 | 39.1 | 100.1 |
| 1.sSMPABC313 | 0.10678247 | 2.03325779 | 4.58463735 | 2.56009852 | 0.31138934 | 1.55562437 | 0.60764239 | 0.10053 | 1.19367353 | 1745.20837 | 37.2 | 41.5 | 1748 | 24 | 33.2 | 100.1 |
| 1.sSMPABC314 | 0.10037313 | 2.78987581 | 3.95565061 | 3.28893645 | 0.28582432 | 1.74175081 | 0.52957874 | 0.09291 | 1.44225595 | 1631.00778 | 51.8 | 55.1 | 1621 | 25 | 33.1 | 99.7 |
| 1.sSMPABC316 | 0.05981 | 2.03979268 | 0.79036538 | 2.55820985 | 0.09584133 | 1.54391821 | 0.60351508 | 0.0305 | 1.1147541 | 596.707777 | 44.2 | 49.3 | 590 | 9 | 12.2 | 99.8 |
| 1.sSMPABC317 | 0.05941703 | 2.24985448 | 0.77370533 | 2.73532369 | 0.0944416 | 1.55568329 | 0.56873828 | 0.02961 | 1.41843972 | 582.410675 | 48.9 | 53.5 | 582 | 9 | 12.0 | 100.0 |
| 1.sSMPABC319 | 0.05942628 | 3.9422518 | 0.77595563 | 4.73028462 | 0.09470155 | 2.61423857 | 0.55265989 | 0.02905 | 1.23924269 | 582.748429 | 85.6 | 88.3 | 583 | 15 | 16.8 | 100.0 |
| 1.sSMPABC320 | 0.12923745 | 2.62484701 | 6.74897723 | 3.06096253 | 0.37874622 | 1.57469672 | 0.51444495 | 0.10994 | 2.07385847 | 2087.62261 | 46.2 | 49.4 | 2070 | 28 | 38.7 | 99.6 |
| 1.sSMPABC327 | 0.06095143 | 2.17956834 | 0.87586064 | 2.66581051 | 0.1042197 | 1.53493567 | 0.57578574 | 0.03063 | 1.50179563 | 637.52061 | 46.9 | 51.6 | 639 | 9 | 13.1 | 100.1 |
| 1.sSMPABC328 | 0.05960447 | 3.96582783 | 0.78206199 | 4.76376972 | 0.09516146 | 2.63926345 | 0.55402834 | 0.0323 | 1.42414861 | 589.245964 | 86 | 88.7 | 586 | 15 | 17.0 | 99.9 |
| 1.sSMPABC329 | 0.13060365 | 2.05578908 | 6.94743144 | 2.61271293 | 0.38580484 | 1.61245159 | 0.61715605 | 0.12102 | 1.47083127 | 2106.09699 | 36.1 | 40.2 | 2103 | 29 | 39.7 | 99.9 |
| 1.sSMPABC330 | 0.12766245 | 1.94264496 | 6.65247345 | 2.51199049 | 0.37793638 | 1.59255353 | 0.63398072 | 0.11577 | 1.39932625 | 2066.03204 | 34.2 | 38.6 | 2067 | 28 | 38.8 | 100.0 |
| 1.sSMPABC331 | 0.06036302 | 3.89843091 | 0.82796258 | 4.65791642 | 0.09948062 | 2.54920022 | 0.54728338 | 0.0328 | 1.09756098 | 616.612486 | 84.2 | 86.9 | 611 | 15 | 17.3 | 99.8 |
| 1.sSMPABC332 | 0.1341753 | 2.0273843 | 7.30407796 | 2.52448823 | 0.39481309 | 1.50424524 | 0.59586146 | 0.12319 | 1.28257164 | 2153.32203 | 35.4 | 39.5 | 2145 | 28 | 38.9 | 99.8 |
| 1.sSMPABC333 | 0.06117694 | 3.88141573 | 0.88576359 | 4.59669302 | 0.10500954 | 2.46255937 | 0.53572413 | 0.03719 | 1.39822533 | 645.461107 | 83.4 | 86.1 | 644 | 15 | 17.7 | 99.9 |
| 1.sSMPABC336 | 0.06038 | 2.18615436 | 0.83102552 | 2.74658151 | 0.09982055 | 1.66266026 | 0.60535624 | 0.03205 | 1.68486739 | 617.219767 | 47.2 | 51.9 | 613 | 10 | 13.1 | 99.9 |
| 1.sSMPABC337 | 0.06071905 | 2.10890611 | 0.85603183 | 2.614486 | 0.10225008 | 1.54533235 | 0.59106545 | 0.02152 | 1.39405204 | 629.296269 | 45.4 | 50.3 | 628 | 9 | 12.9 | 99.9 |
| 1.sSMPABC338 | 0.0596633 | 3.96191685 | 0.79023629 | 4.76088937 | 0.09606129 | 2.63993986 | 0.55450561 | 0.0328 | 1.46341463 | 591.385631 | 85.9 | 88.6 | 591 | 15 | 17.2 | 100.0 |
| 1.sSMPABC339 | 0.05949068 | 2.27535612 | 0.77614049 | 2.8152191 | 0.09462157 | 1.65777353 | 0.58886128 | 0.02281 | 1.75361683 | 585.099913 | 49.4 | 54.0 | 583 | 9 | 12.5 | 99.9 |
| 1.sSMPABC340 | 0.06130901 | 3.87305475 | 0.8853938 | 4.57383962 | 0.1047396 | 2.43299317 | 0.5319367 | 0.03072 | 1.30208333 | 650.092911 | 83.2 | 85.9 | 642 | 15 | 17.5 | 99.7 |
| 1.sSMPABC347 | 0.05944115 | 3.97672409 | 0.77475682 | 4.7825916 | 0.09453158 | 2.65684924 | 0.55552501 | 0.03141 | 1.65552372 | 583.29176 | 86.3 | 93.7 | 582 | 15 | 17.0 | 100.0 |
| 1.sSMPABC348 | 0.06115938 | 2.00656151 | 0.88660532 | 2.54447482 | 0.10513952 | 1.56462872 | 0.61491224 | 0.031 | 1.03225806 | 644.844079 | 43.1 | 55.6 | 644 | 10 | 13.3 | 100.0 |
| 1.sSMPABC349 | 0.11477414 | 1.95600081 | 5.32694312 | 2.50004217 | 0.33661443 | 1.55700729 | 0.62279241 | 0.12 | 1.45 | 1876.3416 | 35.3 | 38.6 | 1870 | 25 | 35.2 | 99.9 |
| 1.sSMPABC350 | 0.10518625 | 2.15076374 | 4.42359274 | 2.73638283 | 0.30501058 | 1.69174653 | 0.6182419 | 0.10166 | 2.18374975 | 1717.57276 | 39.5 | 43.2 | 1716 | 26 | 34.2 | 100.0 |
| 1.sSMPABC351 | 0.13249 | 2.05298513 | 7.16174369 | 2.61007488 | 0.39204363 | 1.6117515 | 0.6175116 | 0.13165 | 1.45841246 | 2131.22829 | 35.9 | 38.3 | 2132 | 29 | 40.1 | 100.0 |
| 1.sSMPABC352 | 0.06033282 | 2.06067977 | 0.83445153 | 2.58303622 | 0.10031046 | 1.55745787 | 0.60295626 | 0.03395 | 1.29602356 | 615.531966 | 44.5 | 57.1 | 616 | 9 | 12.7 | 100.0 |
| 1.sSMPABC356 | 0.05957579 | 2.45298075 | 0.79745415 | 3.03816119 | 0.09708109 | 1.79257045 | 0.59001822 | 0.03494 | 2.00343446 | 588.202132 | 53.2 | 64.5 | 597 | 10 | 13.4 | 100.3 |
| 1.sSMPABC358 | 0.06052274 | 2.26869562 | 0.84625581 | 2.81515491 | 0.10141024 | 1.66676853 | 0.59206992 | 0.03116 | 1.54043646 | 622.31506 | 48.9 | 60.5 | 623 | 10 | 15.0 | 100.0 |
| 1.sSMPABC359 | 0.12854922 | 2.03872714 | 6.71888448 | 2.54571689 | 0.37907615 | 1.52455441 | 0.59887037 | 0.11031 | 1.41419636 | 2078.22713 | 35.9 | 38.4 | 2072 | 27 | 11.5 | 99.9 |
| 1.sSMPABC360 | 0.12796669 | 2.58820366 | 6.67944103 | 3.05090986 | 0.37856625 | 1.61531816 | 0.52945457 | 0.10343 | 1.8756647 | 2070.2275 | 45.6 | 47.6 | 2070 | 29 | 14.8 | 100.0 |
| 1.sSMPABC367 | 0.06076719 | 2.1613198 | 0.85897224 | 2.7014673 | 0.10252003 | 1.62068575 | 0.59992795 | 0.02857 | 1.40007 | 631.003383 | 46.6 | 58.5 | 629 | 10 | 32.9 | 99.9 |
| 1.sSMPABC368 | 0.12888393 | 2.22801813 | 6.74526246 | 2.70830226 | 0.37957606 | 1.53975204 | 0.56853035 | 0.10606 | 2.62115784 | 2082.804 | 39.2 | 41.5 | 2074 | 27 | 25.9 | 99.8 |
| 1.sSMPABC369 | 0.10787706 | 2.75611299 | 4.84087057 | 3.21743196 | 0.3254566 | 1.66003301 | 0.51594969 | 0.08411 | 1.37914636 | 1763.86732 | 50.4 | 53.1 | 1816 | 26 | 33.8 | 101.4 |
| 1.sSMPABC371 | 0.22071577 | 2.08415213 | 17.9226491 | 2.5682424 | 0.58893527 | 1.50072613 | 0.58433975 | 0.14141 | 1.71133583 | 2985.91994 | 33.5 | 34.3 | 2985 | 36 | 23.3 | 100.0 |
| 1.sSMPABC372 | 0.11083845 | 2.79097827 | 4.94809021 | 3.28164902 | 0.32377693 | 1.72616935 | 0.52600669 | 0.1124 | 1.69039146 | 1813.20686 | 50.7 | 53.3 | 1808 | 27 | 15.2 | 99.9 |
| 1.sSMPABC374 | 0.06101923 | 2.08282531 | 0.87767599 | 2.61420417 | 0.10431968 | 1.57984244 | 0.60433017 | 0.04082 | 1.42087212 | 639.911896 | 44.8 | 57.0 | 640 | 10 | 15.1 | 100.0 |
| 1.sSMPABC375 | 0.06126915 | 2.05949633 | 0.90162596 | 2.61566171 | 0.10672921 | 1.61250148 | 0.61647937 | 0.03928 | 1.32382892 | 648.696311 | 44.2 | 56.4 | 654 | 10 | 13.0 | 100.2 |
| 1.sSMPABC376 | 0.05969 | 2.04389345 | 0.74516882 | 2.57608053 | 0.09054236 | 1.5680212 | 0.60868485 | 0.02863 | 1.46699267 | 592.355501 | 44.3 | 57.3 | 559 | 8 | 15.5 | 98.8 |
| 1.sSMPABC377 | 0.0588368 | 3.96415329 | 0.73962725 | 4.79774528 | 0.09117224 | 2.70256332 | 0.56329862 | 0.02894 | 1.45127851 | 561.062363 | 86.4 | 94.0 | 562 | 15 | 38.1 | 100.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Supplementary Material B** - U-Pb data (LA-ICP-MS) of zircons from samples JBR-21 and JBR-25 - Ipu Formation (lowermost succession).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | Ratios c |  |  |  |  |  |  |  |  | Dates c |  |  |  |
| Identifier | 207Pb/206Pb | 2s (%) | 207Pb/235U | 2s (%) | 206Pb/238U | 2s (%) | Rho | 208Pb/232Th | *2s (%)* | 207Pb/206Pb | 2s | 2ssys | 206Pb/238U | 2s | 2ssys | % conc |
|  |  |  | Data for Wetherill plot c | | | | |  |  |  | abs | abs |  | abs | abs |  |
| 1.sSMPABC247 | 0.06067529 | 3.93137339 | 0.84671598 | 4.63644014 | 0.10121028 | 2.45782026 | 0.53010935 | 0.03238 | 1.79122915 | 627.7 | 84.7 | 87.4 | 621.5 | 14.6 | 17.1 | 99.8 |
| 1.sSMPABC248 | 0.0619321 | 3.81677759 | 0.9353723 | 4.49398111 | 0.10953866 | 2.37235643 | 0.5278964 | 0.03436 | 0.93131548 | 671.8 | 81.7 | 84.4 | 670.1 | 15.1 | 17.9 | 99.9 |
| 1.sSMPABC249 | 0.06047 | 2.51364313 | 0.83993332 | 2.96264826 | 0.10074038 | 1.56808257 | 0.52928408 | 0.03286 | 1.88679245 | 620.4 | 54.2 | 58.4 | 618.7 | 9.3 | 12.8 | 99.9 |
| 1.sSMPABC251 | 0.06084 | 2.03813281 | 0.86637559 | 2.53664786 | 0.10327988 | 1.51016457 | 0.59533867 | 0.03213 | 1.24494242 | 633.6 | 43.9 | 48.9 | 633.6 | 9.1 | 12.9 | 100.0 |
| 1.sSMPABC254 | 0.06093907 | 3.91435593 | 0.87022255 | 4.61709708 | 0.10356982 | 2.44855123 | 0.53032267 | 0.06967 | 1.98076647 | 637.1 | 84.2 | 87.0 | 635.3 | 14.8 | 17.4 | 99.9 |
| 1.sSMPABC256 | 0.06056931 | 2.14630493 | 0.83020763 | 2.63507033 | 0.09941063 | 1.5287154 | 0.58014216 | 0.01575 | 1.77777778 | 624.0 | 46.3 | 51.1 | 611.0 | 8.9 | 12.5 | 99.6 |
| 1.sSMPABC257 | 0.06065258 | 2.05451543 | 0.85476026 | 2.56206384 | 0.10221009 | 1.53073102 | 0.59746014 | 0.02075 | 1.34939759 | 626.9 | 44.3 | 49.3 | 627.3 | 9.2 | 12.8 | 100.0 |
| 1.sSMPABC258 | 0.06019 | 1.96045855 | 0.81911744 | 2.49280951 | 0.09870077 | 1.53970827 | 0.61765982 | 0.03136 | 1.2755102 | 610.4 | 42.4 | 47.6 | 606.8 | 8.9 | 12.5 | 99.9 |
| 1.sSMPABC259 | 0.05981 | 2.14011035 | 0.78385183 | 2.6340993 | 0.09505148 | 1.53571053 | 0.58301163 | 0.1447 | 119.91707 | 596.7 | 46.4 | 51.2 | 585.3 | 8.6 | 12.0 | 99.6 |
| 1.sSMPABC260 | 0.05985073 | 2.86222044 | 0.8206883 | 3.34939876 | 0.09945063 | 1.73958795 | 0.5193732 | 0.03106 | 2.31809401 | 598.2 | 62.0 | 65.7 | 611.2 | 10.2 | 13.4 | 100.5 |
| 1.sSMPABC268 | 0.06026 | 2.05774975 | 0.82654954 | 2.56281339 | 0.09948062 | 1.52763819 | 0.59607859 | 0.03193 | 1.25274037 | 612.9 | 44.5 | 49.5 | 611.4 | 8.9 | 12.5 | 99.9 |
| 1.sSMPABC270 | 0.06027632 | 2.31593176 | 0.83499956 | 2.84461543 | 0.10047043 | 1.65175575 | 0.58066048 | 0.03181 | 1.38321283 | 613.5 | 50.0 | 54.5 | 617.2 | 9.7 | 13.2 | 100.1 |
| 1.sSMPABC271 | 0.05977076 | 4.06536063 | 0.79108283 | 4.82777676 | 0.0959913 | 2.60389543 | 0.53935705 | 0.03042 | 1.77514793 | 595.3 | 88.1 | 90.7 | 590.9 | 14.7 | 17.0 | 99.8 |
| 1.sSMPABC272 | 0.06832 | 2.07845433 | 1.3711851 | 2.56970307 | 0.14556164 | 1.51109279 | 0.58804179 | 0.03434 | 1.22306348 | 878.3 | 43.0 | 47.8 | 876.0 | 12.4 | 17.5 | 99.9 |
| 1.sSMPABC273 | 0.0607312 | 3.8747969 | 0.85754259 | 4.59205003 | 0.10241005 | 2.46431987 | 0.53664918 | 0.03404 | 1.17508813 | 629.7 | 83.5 | 86.2 | 628.5 | 14.8 | 17.3 | 100.0 |
| 1.sSMPABC274 | 0.06131 | 2.31609852 | 0.89622636 | 2.80612608 | 0.10601935 | 1.58430781 | 0.56458896 | 0.03476 | 2.07134638 | 650.1 | 49.7 | 54.2 | 649.6 | 9.8 | 13.5 | 100.0 |
| 1.sSMPABC275 | 0.12844 | 2.13329181 | 6.7036149 | 2.58988671 | 0.37853626 | 1.46852962 | 0.56702466 | 0.10937 | 2.02980708 | 2076.7 | 37.6 | 41.5 | 2069.4 | 26.1 | 37.3 | 99.8 |
| 1.sSMPABC276 | 0.06217 | 2.15538041 | 0.95122093 | 2.67585489 | 0.11096838 | 1.58572844 | 0.59260629 | 0.01731 | 1.6175621 | 680.0 | 46.0 | 50.8 | 678.4 | 10.2 | 14.1 | 99.9 |
| 1.sSMPABC277 | 0.06043328 | 3.89389869 | 0.84517156 | 4.62095371 | 0.10143024 | 2.48812503 | 0.53844405 | 0.03097 | 1.22699387 | 619.1 | 84.0 | 86.8 | 622.8 | 14.8 | 17.3 | 100.1 |
| 1.sSMPABC278 | 0.06024471 | 2.15617582 | 0.83281768 | 2.64305592 | 0.10026047 | 1.52861062 | 0.57834971 | 0.03167 | 1.57878118 | 612.4 | 46.6 | 51.4 | 615.9 | 9.0 | 12.6 | 100.1 |
| 1.sSMPABC279 | 0.06079333 | 2.60361966 | 0.86990129 | 3.15003227 | 0.10377978 | 1.77309559 | 0.56288172 | 0.03369 | 1.48411992 | 631.9 | 56.1 | 60.1 | 636.5 | 10.8 | 14.1 | 100.2 |
| 1.sSMPABC280 | 0.06108 | 2.12835625 | 0.88158134 | 2.62015676 | 0.10467961 | 1.52817574 | 0.58323829 | 0.03247 | 1.29350169 | 642.1 | 45.8 | 50.6 | 641.8 | 9.3 | 13.1 | 100.0 |
| 1.sSMPABC289 | 0.06079935 | 2.13818346 | 0.86034889 | 2.61200373 | 0.10263001 | 1.50024497 | 0.57436556 | 0.02837 | 1.33944307 | 632.1 | 46.0 | 50.9 | 629.8 | 9.0 | 12.8 | 99.9 |
| 1.sSMPABC290 | 0.06041549 | 2.90467991 | 0.84433984 | 3.42394957 | 0.10136025 | 1.81280592 | 0.52944878 | 0.02638 | 2.19863533 | 618.5 | 62.7 | 66.3 | 622.4 | 10.8 | 14.0 | 100.1 |
| 1.sSMPABC292 | 0.06021854 | 3.89038537 | 0.82025301 | 4.63416681 | 0.09879076 | 2.51801583 | 0.54335891 | 0.02029 | 1.47856087 | 611.4 | 84.1 | 86.8 | 607.3 | 14.6 | 17.0 | 99.9 |
| 1.sSMPABC294 | 0.06075487 | 2.41061932 | 0.86507952 | 2.92103339 | 0.10326988 | 1.64965164 | 0.56474933 | 0.03698 | 2.37966468 | 630.6 | 51.9 | 56.3 | 633.5 | 10.0 | 13.5 | 100.1 |
| 1.sSMPABC295 | 0.06075219 | 3.87345789 | 0.85532657 | 4.6078115 | 0.10211011 | 2.49564637 | 0.54161208 | 0.03395 | 1.17820324 | 630.5 | 83.4 | 86.2 | 626.8 | 14.9 | 17.4 | 99.9 |
| 1.sSMPABC296 | 0.06092 | 2.06828628 | 0.8658352 | 2.57416823 | 0.10307992 | 1.53249273 | 0.59533511 | 0.03041 | 1.31535679 | 636.4 | 44.5 | 49.5 | 632.4 | 9.2 | 12.9 | 99.9 |
| 1.sSMPABC297 | 0.06166256 | 2.20182198 | 0.88684436 | 2.65908175 | 0.10430968 | 1.49087079 | 0.56067129 | 0.04192 | 1.6221374 | 662.4 | 47.2 | 51.9 | 639.6 | 9.1 | 12.9 | 99.2 |
| 1.sSMPABC298 | 0.06089 | 2.10215142 | 0.86843062 | 2.65627914 | 0.10343985 | 1.62381597 | 0.61131225 | 0.03695 | 1.67794317 | 635.4 | 45.2 | 50.1 | 634.5 | 9.8 | 13.4 | 100.0 |
| 1.sSMPABC300 | 0.06063878 | 3.48227032 | 0.86384448 | 4.05930249 | 0.10331987 | 2.08608008 | 0.51390112 | 0.03637 | 3.07946109 | 626.4 | 75.1 | 78.1 | 633.8 | 12.6 | 15.5 | 100.3 |
| 1.sSMPABC307 | 0.06061 | 2.17785844 | 0.84655688 | 2.66714649 | 0.10130027 | 1.53967627 | 0.57727473 | 0.0333 | 1.44144144 | 625.4 | 47.0 | 51.7 | 622.0 | 9.1 | 12.8 | 99.9 |
| 1.sSMPABC308 | 0.06149441 | 2.18061909 | 0.90561901 | 2.71100783 | 0.10680919 | 1.61073394 | 0.59414581 | 0.03811 | 1.62686959 | 656.6 | 46.8 | 51.5 | 654.2 | 10.0 | 13.7 | 99.9 |
| 1.sSMPABC311 | 0.06057026 | 4.01170028 | 0.84216085 | 4.72833431 | 0.10084036 | 2.5026798 | 0.52929417 | 0.03243 | 1.5417823 | 624.0 | 86.5 | 89.2 | 619.3 | 14.8 | 17.3 | 99.8 |
| 1.sSMPABC312 | 0.13498456 | 2.01505415 | 7.44005502 | 2.50647872 | 0.39975213 | 1.49063488 | 0.59471276 | 0.12431 | 1.33537125 | 2163.8 | 35.1 | 39.3 | 2167.9 | 27.5 | 39.1 | 100.1 |
| 1.sSMPABC313 | 0.10678247 | 2.03325779 | 4.58463735 | 2.56009852 | 0.31138934 | 1.55562437 | 0.60764239 | 0.10053 | 1.19367353 | 1745.2 | 37.2 | 41.5 | 1747.5 | 23.9 | 33.2 | 100.1 |
| 1.sSMPABC314 | 0.10037313 | 2.78987581 | 3.95565061 | 3.28893645 | 0.28582432 | 1.74175081 | 0.52957874 | 0.09291 | 1.44225595 | 1631.0 | 51.8 | 55.1 | 1620.6 | 25.0 | 33.1 | 99.7 |
| 1.sSMPABC316 | 0.05981 | 2.03979268 | 0.79036538 | 2.55820985 | 0.09584133 | 1.54391821 | 0.60351508 | 0.0305 | 1.1147541 | 596.7 | 44.2 | 49.3 | 590.0 | 8.7 | 12.2 | 99.8 |
| 1.sSMPABC317 | 0.05941703 | 2.24985448 | 0.77370533 | 2.73532369 | 0.0944416 | 1.55568329 | 0.56873828 | 0.02961 | 1.41843972 | 582.4 | 48.9 | 53.5 | 581.8 | 8.7 | 12.0 | 100.0 |
| 1.sSMPABC319 | 0.05942628 | 3.9422518 | 0.77595563 | 4.73028462 | 0.09470155 | 2.61423857 | 0.55265989 | 0.02905 | 1.23924269 | 582.7 | 85.6 | 88.3 | 583.3 | 14.6 | 16.8 | 100.0 |
| 1.sSMPABC320 | 0.12923745 | 2.62484701 | 6.74897723 | 3.06096253 | 0.37874622 | 1.57469672 | 0.51444495 | 0.10994 | 2.07385847 | 2087.6 | 46.2 | 49.4 | 2070.4 | 27.9 | 38.7 | 99.6 |
| 1.sSMPABC327 | 0.06095143 | 2.17956834 | 0.87586064 | 2.66581051 | 0.1042197 | 1.53493567 | 0.57578574 | 0.03063 | 1.50179563 | 637.5 | 46.9 | 51.6 | 639.1 | 9.3 | 13.1 | 100.1 |
| 1.sSMPABC328 | 0.05960447 | 3.96582783 | 0.78206199 | 4.76376972 | 0.09516146 | 2.63926345 | 0.55402834 | 0.0323 | 1.42414861 | 589.2 | 86.0 | 88.7 | 586.0 | 14.8 | 17.0 | 99.9 |
| 1.sSMPABC329 | 0.13060365 | 2.05578908 | 6.94743144 | 2.61271293 | 0.38580484 | 1.61245159 | 0.61715605 | 0.12102 | 1.47083127 | 2106.1 | 36.1 | 40.2 | 2103.3 | 29.0 | 39.7 | 99.9 |
| 1.sSMPABC330 | 0.12766245 | 1.94264496 | 6.65247345 | 2.51199049 | 0.37793638 | 1.59255353 | 0.63398072 | 0.11577 | 1.39932625 | 2066.0 | 34.2 | 38.6 | 2066.6 | 28.2 | 38.8 | 100.0 |
| 1.sSMPABC331 | 0.06036302 | 3.89843091 | 0.82796258 | 4.65791642 | 0.09948062 | 2.54920022 | 0.54728338 | 0.0328 | 1.09756098 | 616.6 | 84.2 | 86.9 | 611.4 | 14.9 | 17.3 | 99.8 |
| 1.sSMPABC332 | 0.1341753 | 2.0273843 | 7.30407796 | 2.52448823 | 0.39481309 | 1.50424524 | 0.59586146 | 0.12319 | 1.28257164 | 2153.3 | 35.4 | 39.5 | 2145.1 | 27.5 | 38.9 | 99.8 |
| 1.sSMPABC333 | 0.06117694 | 3.88141573 | 0.88576359 | 4.59669302 | 0.10500954 | 2.46255937 | 0.53572413 | 0.03719 | 1.39822533 | 645.5 | 83.4 | 86.1 | 643.7 | 15.1 | 17.7 | 99.9 |
| 1.sSMPABC336 | 0.06038 | 2.18615436 | 0.83102552 | 2.74658151 | 0.09982055 | 1.66266026 | 0.60535624 | 0.03205 | 1.68486739 | 617.2 | 47.2 | 51.9 | 613.4 | 9.7 | 13.1 | 99.9 |
| 1.sSMPABC337 | 0.06071905 | 2.10890611 | 0.85603183 | 2.614486 | 0.10225008 | 1.54533235 | 0.59106545 | 0.02152 | 1.39405204 | 629.3 | 45.4 | 50.3 | 627.6 | 9.2 | 12.9 | 99.9 |
| 1.sSMPABC338 | 0.0596633 | 3.96191685 | 0.79023629 | 4.76088937 | 0.09606129 | 2.63993986 | 0.55450561 | 0.0328 | 1.46341463 | 591.4 | 85.9 | 88.6 | 591.3 | 14.9 | 17.2 | 100.0 |
| 1.sSMPABC339 | 0.05949068 | 2.27535612 | 0.77614049 | 2.8152191 | 0.09462157 | 1.65777353 | 0.58886128 | 0.02281 | 1.75361683 | 585.1 | 49.4 | 54.0 | 582.8 | 9.2 | 12.5 | 99.9 |
| 1.sSMPABC340 | 0.06130901 | 3.87305475 | 0.8853938 | 4.57383962 | 0.1047396 | 2.43299317 | 0.5319367 | 0.03072 | 1.30208333 | 650.1 | 83.2 | 85.9 | 642.1 | 14.9 | 17.5 | 99.7 |
| 1.sSMPABC347 | 0.05944115 | 3.97672409 | 0.77475682 | 4.7825916 | 0.09453158 | 2.65684924 | 0.55552501 | 0.03141 | 1.65552372 | 583.3 | 86.3 | 93.7 | 582.3 | 14.8 | 17.0 | 100.0 |
| 1.sSMPABC348 | 0.06115938 | 2.00656151 | 0.88660532 | 2.54447482 | 0.10513952 | 1.56462872 | 0.61491224 | 0.031 | 1.03225806 | 644.8 | 43.1 | 55.6 | 644.5 | 9.6 | 13.3 | 100.0 |
| 1.sSMPABC349 | 0.11477414 | 1.95600081 | 5.32694312 | 2.50004217 | 0.33661443 | 1.55700729 | 0.62279241 | 0.12 | 1.45 | 1876.3 | 35.3 | 38.6 | 1870.4 | 25.3 | 35.2 | 99.9 |
| 1.sSMPABC350 | 0.10518625 | 2.15076374 | 4.42359274 | 2.73638283 | 0.30501058 | 1.69174653 | 0.6182419 | 0.10166 | 2.18374975 | 1717.6 | 39.5 | 43.2 | 1716.1 | 25.5 | 34.2 | 100.0 |
| 1.sSMPABC351 | 0.13249 | 2.05298513 | 7.16174369 | 2.61007488 | 0.39204363 | 1.6117515 | 0.6175116 | 0.13165 | 1.45841246 | 2131.2 | 35.9 | 38.3 | 2132.3 | 29.3 | 40.1 | 100.0 |
| 1.sSMPABC352 | 0.06033282 | 2.06067977 | 0.83445153 | 2.58303622 | 0.10031046 | 1.55745787 | 0.60295626 | 0.03395 | 1.29602356 | 615.5 | 44.5 | 57.1 | 616.2 | 9.2 | 12.7 | 100.0 |
| 1.sSMPABC356 | 0.05957579 | 2.45298075 | 0.79745415 | 3.03816119 | 0.09708109 | 1.79257045 | 0.59001822 | 0.03494 | 2.00343446 | 588.2 | 53.2 | 64.5 | 597.3 | 10.2 | 13.4 | 100.3 |
| 1.sSMPABC358 | 0.06052274 | 2.26869562 | 0.84625581 | 2.81515491 | 0.10141024 | 1.66676853 | 0.59206992 | 0.03116 | 1.54043646 | 622.3 | 48.9 | 60.5 | 622.7 | 9.9 | 15.0 | 100.0 |
| 1.sSMPABC359 | 0.12854922 | 2.03872714 | 6.71888448 | 2.54571689 | 0.37907615 | 1.52455441 | 0.59887037 | 0.11031 | 1.41419636 | 2078.2 | 35.9 | 38.4 | 2072.0 | 27.1 | 11.5 | 99.9 |
| 1.sSMPABC360 | 0.12796669 | 2.58820366 | 6.67944103 | 3.05090986 | 0.37856625 | 1.61531816 | 0.52945457 | 0.10343 | 1.8756647 | 2070.2 | 45.6 | 47.6 | 2069.6 | 28.7 | 14.8 | 100.0 |
| 1.sSMPABC367 | 0.06076719 | 2.1613198 | 0.85897224 | 2.7014673 | 0.10252003 | 1.62068575 | 0.59992795 | 0.02857 | 1.40007 | 631.0 | 46.6 | 58.5 | 629.2 | 9.7 | 32.9 | 99.9 |
| 1.sSMPABC368 | 0.12888393 | 2.22801813 | 6.74526246 | 2.70830226 | 0.37957606 | 1.53975204 | 0.56853035 | 0.10606 | 2.62115784 | 2082.8 | 39.2 | 41.5 | 2074.3 | 27.4 | 25.9 | 99.8 |
| 1.sSMPABC369 | 0.10787706 | 2.75611299 | 4.84087057 | 3.21743196 | 0.3254566 | 1.66003301 | 0.51594969 | 0.08411 | 1.37914636 | 1763.9 | 50.4 | 53.1 | 1816.3 | 26.3 | 33.8 | 101.4 |
| 1.sSMPABC371 | 0.22071577 | 2.08415213 | 17.9226491 | 2.5682424 | 0.58893527 | 1.50072613 | 0.58433975 | 0.14141 | 1.71133583 | 2985.9 | 33.5 | 34.3 | 2985.1 | 36.0 | 23.3 | 100.0 |
| 1.sSMPABC372 | 0.11083845 | 2.79097827 | 4.94809021 | 3.28164902 | 0.32377693 | 1.72616935 | 0.52600669 | 0.1124 | 1.69039146 | 1813.2 | 50.7 | 53.3 | 1808.1 | 27.3 | 15.2 | 99.9 |
| 1.sSMPABC374 | 0.06101923 | 2.08282531 | 0.87767599 | 2.61420417 | 0.10431968 | 1.57984244 | 0.60433017 | 0.04082 | 1.42087212 | 639.9 | 44.8 | 57.0 | 639.7 | 9.6 | 15.1 | 100.0 |
| 1.sSMPABC375 | 0.06126915 | 2.05949633 | 0.90162596 | 2.61566171 | 0.10672921 | 1.61250148 | 0.61647937 | 0.03928 | 1.32382892 | 648.7 | 44.2 | 56.4 | 653.7 | 10.0 | 13.0 | 100.2 |
| 1.sSMPABC376 | 0.05969 | 2.04389345 | 0.74516882 | 2.57608053 | 0.09054236 | 1.5680212 | 0.60868485 | 0.02863 | 1.46699267 | 592.4 | 44.3 | 57.3 | 558.7 | 8.4 | 15.5 | 98.8 |
| 1.sSMPABC377 | 0.0588368 | 3.96415329 | 0.73962725 | 4.79774528 | 0.09117224 | 2.70256332 | 0.56329862 | 0.02894 | 1.45127851 | 561.1 | 86.4 | 94.0 | 562.5 | 14.6 | 38.1 | 100.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Supplementary Material B** - U-Pb data (LA-ICP-MS) of zircons from samples JBR-14, JBR-15 and JBR-16 - Ipu Formation (intermediate succession; Santana do Acaraú Graben).

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | Ratios c |  |  |  |  |  |  |  |  | Dates c |  |  |  |
| Identifier | 207Pb/206Pb | 2s (%) | 207Pb/235U | 2s (%) | 206Pb/238U | 2s (%) | Rho | 208Pb/232Th | *2s (%)* | 207Pb/206Pb | 2s | 2ssys | 206Pb/238U | 2s | 2ssys | % conc |
|  |  |  | Data for Wetherill plot c | | | | |  |  |  | abs | abs |  | abs | abs |  |
| 1.sSMPABC112 | 0.13173428 | 2.19087217 | 7.08722415 | 2.59088833 | 0.39018996 | 1.38303344 | 0.53380666 | 0.05084 | 2.36034618 | 2121.2 | 38.4 | 42.2 | 2123.7 | 25.1 | 37.1 | 100.2 |
| 1.sSMPABC113 | 0.12545189 | 2.26332615 | 6.41129958 | 2.66198036 | 0.37065305 | 1.40124737 | 0.52639283 | 0.07764 | 3.06543019 | 2035.2 | 40.0 | 43.8 | 2032.5 | 24.5 | 36.0 | 100.1 |
| 1.sSMPABC114 | 0.06077691 | 1.85610888 | 0.86127227 | 2.45614948 | 0.1027781 | 1.60858014 | 0.65491948 | 0.01608 | 1.99004975 | 631.3 | 40.0 | 45.5 | 630.7 | 9.7 | 13.3 | 100.0 |
| 1.sSMPABC115 | 0.06106 | 2.12905339 | 0.8781235 | 2.59912092 | 0.10430317 | 1.49082569 | 0.57358843 | 0.02969 | 1.34725497 | 641.3 | 45.8 | 50.6 | 639.6 | 9.1 | 12.9 | 100.0 |
| 1.sSMPABC116 | 0.12865863 | 2.03700946 | 6.7281345 | 2.47073779 | 0.37927521 | 1.39826239 | 0.56592909 | 0.06602 | 1.45410482 | 2079.7 | 35.9 | 40.0 | 2072.9 | 24.9 | 36.6 | 100.0 |
| 1.sSMPABC117 | 0.12553613 | 2.00746744 | 6.39386548 | 2.46794676 | 0.36939711 | 1.4355611 | 0.58168236 | 0.09016 | 1.53061224 | 2036.4 | 35.5 | 39.7 | 2026.6 | 25.1 | 36.3 | 99.9 |
| 1.sSMPABC118 | 0.06120208 | 2.0315477 | 0.88243785 | 2.48577208 | 0.10457231 | 1.43243736 | 0.5762545 | 0.02715 | 1.03130755 | 646.3 | 43.6 | 48.7 | 641.1 | 8.8 | 12.7 | 99.9 |
| 1.sSMPABC119 | 0.06065712 | 2.14325161 | 0.84698664 | 2.59144151 | 0.10127296 | 1.45672291 | 0.56212841 | 0.00901 | 1.3318535 | 627.1 | 46.2 | 51.0 | 621.9 | 8.7 | 12.5 | 99.9 |
| 1.sSMPABC120 | 0.13287962 | 2.80166994 | 7.15267791 | 3.18660884 | 0.39039929 | 1.51826265 | 0.4764509 | 0.04611 | 3.25309044 | 2136.4 | 49.0 | 52.1 | 2124.7 | 27.6 | 38.9 | 99.9 |
| 1.sSMPABC127 | 0.12955034 | 2.13743243 | 6.79969294 | 2.55345585 | 0.3806707 | 1.39696793 | 0.54708913 | 0.08948 | 1.96691998 | 2091.9 | 37.6 | 41.5 | 2079.4 | 24.9 | 36.7 | 99.8 |
| 1.sSMPABC128 | 0.06242 | 2.17878885 | 0.95739031 | 2.62805083 | 0.11124077 | 1.46953405 | 0.55917261 | 0.03368 | 2.13776722 | 688.5 | 46.5 | 51.2 | 679.9 | 9.5 | 13.6 | 99.8 |
| 1.sSMPABC129 | 0.10509 | 2.32181939 | 4.36631412 | 2.74381297 | 0.3013369 | 1.46207535 | 0.53286261 | 0.08501 | 2.82319727 | 1715.9 | 42.7 | 46.5 | 1697.9 | 21.9 | 31.5 | 99.7 |
| 1.sSMPABC130 | 0.06587924 | 3.77668516 | 1.07844467 | 4.37813389 | 0.1187266 | 2.21465699 | 0.50584497 | 0.01468 | 5.72207084 | 802.5 | 79.1 | 81.8 | 723.2 | 15.2 | 18.4 | 97.4 |
| 1.sSMPABC152 | 0.06062997 | 2.22679667 | 0.85169058 | 2.67177835 | 0.101881 | 1.47640649 | 0.55259318 | 0.03152 | 1.77664975 | 626.1 | 48.0 | 52.7 | 625.4 | 8.8 | 12.6 | 100.0 |
| 1.sSMPABC154 | 0.06131921 | 4.07702545 | 0.88682357 | 4.75441119 | 0.10489128 | 2.44587188 | 0.51444265 | 0.03119 | 1.79544726 | 650.5 | 87.5 | 90.1 | 643.0 | 15.0 | 17.6 | 99.8 |
| 1.sSMPABC155 | 0.12928502 | 2.63639203 | 6.54607084 | 3.06751783 | 0.36722413 | 1.56815265 | 0.51121224 | 0.10219 | 1.83971034 | 2088.3 | 46.4 | 49.6 | 2016.3 | 27.3 | 37.8 | 98.4 |
| 1.sSMPABC157 | 0.13446459 | 2.61985919 | 7.32244918 | 3.03595772 | 0.39495458 | 1.53407207 | 0.50530087 | 0.11341 | 2.23966141 | 2157.1 | 45.7 | 49.0 | 2145.8 | 28.1 | 39.4 | 99.9 |
| 1.sSMPABC158 | 0.06190256 | 3.8359179 | 0.93192818 | 4.49236943 | 0.1091874 | 2.33818669 | 0.52047961 | 0.02742 | 1.60466813 | 670.7 | 82.1 | 84.8 | 668.0 | 14.9 | 17.7 | 100.0 |
| 1.sSMPABC167 | 0.06078993 | 2.11188536 | 0.86432177 | 2.62216516 | 0.10311991 | 1.55424912 | 0.59273502 | 0.0285 | 1.40350877 | 631.8 | 45.5 | 50.4 | 632.7 | 9.4 | 13.0 | 100.0 |
| 1.sSMPABC168 | 0.12527052 | 1.88408638 | 6.36222118 | 2.38708679 | 0.36834824 | 1.46574277 | 0.61402994 | 0.08705 | 0.71223435 | 2032.6 | 33.3 | 37.8 | 2021.6 | 25.5 | 36.5 | 99.7 |
| 1.sSMPABC169 | 0.06568705 | 3.75183136 | 1.18360088 | 4.28941354 | 0.13068454 | 2.07914164 | 0.48471466 | 0.02349 | 2.89484887 | 796.4 | 78.7 | 81.4 | 791.8 | 15.5 | 19.1 | 99.9 |
| 1.sSMPABC170 | 0.06024697 | 2.05450118 | 0.82811494 | 2.50859764 | 0.09969058 | 1.43947456 | 0.57381644 | 0.03072 | 1.04166667 | 612.5 | 44.4 | 49.4 | 612.6 | 8.4 | 12.2 | 100.0 |
| 1.sSMPABC171 | 0.06547 | 2.13838399 | 1.1693108 | 2.63735731 | 0.12953477 | 1.54368632 | 0.58531558 | 0.03799 | 1.52671756 | 789.5 | 44.9 | 49.6 | 785.2 | 11.4 | 15.9 | 99.9 |
| 1.sSMPABC172 | 0.06098224 | 2.24487935 | 0.87663953 | 2.74506168 | 0.10425969 | 1.57983555 | 0.57551914 | 0.03188 | 2.00752823 | 638.6 | 48.3 | 52.9 | 639.3 | 9.6 | 13.3 | 100.0 |
| 1.sSMPABC173 | 0.06083 | 2.26861746 | 0.86271123 | 2.75050962 | 0.10285996 | 1.55520995 | 0.56542611 | 0.03071 | 1.43275806 | 633.2 | 48.8 | 53.4 | 631.1 | 9.4 | 13.0 | 99.9 |
| 1.sSMPABC174 | 0.06024455 | 2.2734203 | 0.82999184 | 2.70644853 | 0.09992053 | 1.46847668 | 0.54258437 | 0.02866 | 1.67480809 | 612.4 | 49.1 | 53.7 | 613.9 | 8.6 | 12.3 | 100.1 |
| 1.sSMPABC175 | 0.12605439 | 2.56468126 | 6.44860279 | 2.98716993 | 0.37102772 | 1.53153329 | 0.51270377 | 0.06162 | 0.90879585 | 2043.7 | 45.3 | 48.7 | 2034.2 | 26.8 | 37.5 | 99.8 |
| 1.sSMPABC176 | 0.12991681 | 2.02112226 | 6.86236067 | 2.49153158 | 0.38309537 | 1.45698127 | 0.58477335 | 0.10833 | 1.01541586 | 2096.8 | 35.5 | 39.6 | 2090.7 | 26.1 | 37.5 | 99.9 |
| 1.sSMPABC178 | 0.12617197 | 2.45179421 | 6.44139867 | 2.94198189 | 0.37026787 | 1.62602661 | 0.5526977 | 0.09797 | 0.95947739 | 2045.3 | 43.3 | 46.8 | 2030.7 | 28.4 | 38.7 | 99.7 |
| 1.sSMPABC179 | 0.12747351 | 2.56085694 | 6.61292991 | 2.9730391 | 0.37624671 | 1.51028913 | 0.50799504 | 0.10658 | 1.12591481 | 2063.4 | 45.2 | 48.5 | 2058.7 | 26.7 | 37.7 | 99.9 |
| 1.sSMPABC187 | 0.06081941 | 2.20676793 | 0.86641769 | 2.71728639 | 0.10331987 | 1.58550328 | 0.58348773 | 0.0307 | 1.17263844 | 632.9 | 47.5 | 52.2 | 633.8 | 9.6 | 13.2 | 100.0 |
| 1.sSMPABC188 | 0.06014797 | 2.71504363 | 0.83711866 | 3.2673161 | 0.10094034 | 1.8176613 | 0.55631633 | 0.03051 | 1.7699115 | 608.9 | 58.7 | 62.6 | 619.9 | 10.8 | 14.0 | 100.4 |
| 1.sSMPABC189 | 0.06056055 | 2.0604562 | 0.84937256 | 2.54666688 | 0.10172018 | 1.49667379 | 0.58769908 | 0.03127 | 0.89542693 | 623.7 | 44.4 | 49.4 | 624.5 | 8.9 | 12.6 | 100.0 |
| 1.sSMPABC191 | 0.06111 | 2.06185567 | 0.88091919 | 2.53378913 | 0.10454963 | 1.47269771 | 0.58122347 | 0.03358 | 1.01250744 | 643.1 | 44.3 | 49.3 | 641.0 | 9.0 | 12.9 | 99.9 |
| 1.sSMPABC192 | 0.06027188 | 3.9576865 | 0.82530003 | 4.66488153 | 0.09931065 | 2.46937994 | 0.52935534 | 0.03102 | 1.16054159 | 613.3 | 85.5 | 88.2 | 610.4 | 14.4 | 16.9 | 99.9 |
| 1.sSMPABC193 | 0.06229 | 2.05490448 | 0.95941126 | 2.53574639 | 0.11170824 | 1.48572451 | 0.58591211 | 0.02166 | 1.20036934 | 684.1 | 43.9 | 48.8 | 682.7 | 9.6 | 13.7 | 100.0 |
| 1.sSMPABC194 | 0.05909696 | 2.04194869 | 0.82273548 | 2.59875641 | 0.10097033 | 1.60747643 | 0.61855602 | 0.03092 | 1.81112549 | 570.7 | 44.4 | 49.5 | 620.1 | 9.5 | 13.0 | 101.7 |
| 1.sSMPABC195 | 0.06189168 | 2.00397073 | 0.93663891 | 2.51057566 | 0.10975862 | 1.51231329 | 0.6023771 | 0.03226 | 0.86794792 | 670.4 | 42.9 | 48.0 | 671.3 | 9.7 | 13.6 | 100.0 |
| 1.sSMPABC197 | 0.12777336 | 1.95686126 | 6.64028686 | 2.46003676 | 0.37691657 | 1.49079673 | 0.60600587 | 0.08527 | 0.79746687 | 2067.6 | 34.5 | 38.8 | 2061.9 | 26.4 | 37.5 | 99.9 |
| 1.sSMPABC198 | 0.12895 | 2.09383482 | 6.75120899 | 2.53392411 | 0.37971603 | 1.42710445 | 0.56319937 | 0.09816 | 1.30399348 | 2083.7 | 36.8 | 40.9 | 2075.0 | 25.4 | 36.9 | 99.8 |
| 1.sSMPABC199 | 0.13356775 | 2.52766982 | 7.24762044 | 2.94226194 | 0.39354334 | 1.50591852 | 0.5118234 | 0.09953 | 1.18557219 | 2145.4 | 44.2 | 47.5 | 2139.2 | 27.5 | 38.9 | 99.9 |
| 1.sSMPABC200 | 0.11956285 | 2.54924507 | 5.80928638 | 3.00234184 | 0.35239135 | 1.58600319 | 0.52825537 | 0.07818 | 0.7930417 | 1949.7 | 45.6 | 49.0 | 1946.0 | 26.7 | 36.8 | 99.9 |
| 1.sSMPABC207 | 0.06024465 | 2.18765021 | 0.82683722 | 2.63157173 | 0.09954061 | 1.46265386 | 0.55580999 | 0.02741 | 1.31338927 | 612.4 | 47.3 | 52.0 | 611.7 | 8.5 | 12.3 | 100.0 |
| 1.sSMPABC208 | 0.06041098 | 2.06370323 | 0.83544923 | 2.54005558 | 0.10030046 | 1.48088195 | 0.58301163 | 0.02619 | 0.99274532 | 618.3 | 44.5 | 49.5 | 616.2 | 8.7 | 12.4 | 99.9 |
| 1.sSMPABC209 | 0.10410579 | 1.96568798 | 4.32605891 | 2.46487207 | 0.30138129 | 1.4871668 | 0.60334441 | 0.07755 | 0.95422308 | 1698.6 | 36.2 | 40.7 | 1698.2 | 22.2 | 31.6 | 100.0 |
| 1.sSMPABC210 | 0.06082064 | 4.03289935 | 0.84228841 | 4.75159557 | 0.10044043 | 2.51264468 | 0.5288002 | 0.02866 | 1.88415911 | 632.9 | 86.8 | 89.5 | 617.0 | 14.8 | 17.3 | 99.5 |
| 1.sSMPABC212 | 0.05945439 | 3.95800984 | 0.77550311 | 4.71164072 | 0.09460157 | 2.55611354 | 0.54251028 | 0.02585 | 1.16054159 | 583.8 | 85.9 | 88.6 | 582.7 | 14.3 | 16.5 | 100.0 |
| 1.sSMPABC213 | 0.0854 | 2.01405152 | 2.68616752 | 2.50016123 | 0.22812556 | 1.48135162 | 0.59250244 | 0.06131 | 1.01125428 | 1324.6 | 39.0 | 43.6 | 1324.7 | 17.8 | 25.3 | 100.0 |
| 1.sSMPABC214 | 0.06149664 | 2.27764192 | 0.9061606 | 2.75701058 | 0.10686918 | 1.55352973 | 0.56348341 | 0.02971 | 1.81756984 | 656.7 | 48.8 | 53.4 | 654.5 | 9.7 | 13.5 | 99.9 |
| 1.sSMPABC215 | 0.12818399 | 1.99760989 | 6.68954632 | 2.5207448 | 0.37849627 | 1.53743588 | 0.60991334 | 0.08854 | 0.92613508 | 2073.2 | 35.2 | 39.4 | 2069.3 | 27.3 | 38.2 | 99.9 |
| 1.sSMPABC217 | 0.06104235 | 2.03179184 | 0.88112204 | 2.53093251 | 0.10468961 | 1.50911938 | 0.5962701 | 0.02977 | 0.87336245 | 640.7 | 43.7 | 48.7 | 641.8 | 9.2 | 13.0 | 100.0 |
| 1.sSMPABC219 | 0.1353285 | 1.99565938 | 7.43158899 | 2.49727026 | 0.39828241 | 1.50123362 | 0.60114984 | 0.10061 | 0.75539211 | 2168.3 | 34.8 | 38.9 | 2161.1 | 27.6 | 39.1 | 99.8 |
| 1.sSMPABC220 | 0.12266236 | 1.93211111 | 6.16144445 | 2.45540911 | 0.36430903 | 1.51524933 | 0.61710667 | 0.08703 | 1.12604849 | 1995.3 | 34.3 | 38.7 | 2002.6 | 26.1 | 36.8 | 100.2 |
| 1.sSMPABC227 | 0.11856705 | 1.88950825 | 5.72657859 | 2.45655839 | 0.35029176 | 1.56985276 | 0.63904557 | 0.08231 | 1.72518528 | 1934.7 | 33.8 | 38.3 | 1936.0 | 26.3 | 36.5 | 100.0 |
| 1.sSMPABC228 | 0.06567341 | 2.1093196 | 1.19123142 | 2.5987829 | 0.13155437 | 1.51803934 | 0.58413472 | 0.03895 | 1.33504493 | 796.0 | 44.2 | 49.0 | 796.7 | 11.4 | 16.0 | 100.0 |
| 1.sSMPABC229 | 0.05922704 | 2.14144176 | 0.76551603 | 2.66483336 | 0.09374174 | 1.58605297 | 0.59517904 | 0.0257 | 1.40077821 | 575.5 | 46.6 | 51.4 | 577.6 | 8.8 | 12.1 | 100.1 |
| 1.sSMPABC230 | 0.06779474 | 3.72330201 | 1.32438168 | 4.27890295 | 0.1416824 | 2.10856174 | 0.49278092 | 0.04586 | 2.35499346 | 862.3 | 77.2 | 80.0 | 854.2 | 16.9 | 20.8 | 99.7 |
| 1.sSMPABC231 | 0.06536474 | 2.13799588 | 1.16517816 | 2.58879629 | 0.12928481 | 1.45973966 | 0.56386811 | 0.02482 | 1.85334408 | 786.1 | 44.9 | 49.6 | 783.8 | 10.8 | 15.5 | 99.9 |
| 1.sSMPABC232 | 0.06073155 | 1.99326961 | 0.86156616 | 2.53266469 | 0.10288996 | 1.56245534 | 0.61692152 | 0.02559 | 1.25048847 | 629.7 | 42.9 | 48.1 | 631.3 | 9.4 | 13.1 | 100.1 |
| 1.sSMPABC233 | 0.12887298 | 2.49641458 | 6.77844373 | 2.95876551 | 0.38147569 | 1.58814597 | 0.53675966 | 0.09647 | 0.82927335 | 2082.7 | 43.9 | 47.3 | 2083.2 | 28.3 | 39.0 | 100.0 |
| 1.sSMPABC234 | 0.1314256 | 2.47183993 | 7.03246258 | 2.93660045 | 0.3880844 | 1.58544301 | 0.53989061 | 0.09582 | 1.00187852 | 2117.1 | 43.3 | 46.8 | 2113.9 | 28.6 | 39.5 | 99.9 |
| 1.sSMPABC235 | 0.06040452 | 3.9489959 | 0.8346938 | 4.69679655 | 0.10022048 | 2.54270116 | 0.54136924 | 0.03013 | 1.32758048 | 618.1 | 85.2 | 88.0 | 615.7 | 15.0 | 17.4 | 99.9 |
| 1.sSMPABC237 | 0.13323255 | 2.50990429 | 7.22061623 | 2.93538879 | 0.39306343 | 1.52213265 | 0.5185455 | 0.10826 | 1.34860521 | 2141.0 | 43.9 | 47.3 | 2137.0 | 27.7 | 39.0 | 99.9 |
| 1.sSMPABC238 | 0.06050467 | 2.17537455 | 0.82965525 | 2.67444071 | 0.09945063 | 1.55575662 | 0.58171289 | 0.03133 | 1.14905841 | 621.7 | 46.9 | 51.7 | 611.2 | 9.1 | 12.6 | 99.6 |
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**Supplementary Material B** - U-Pb data (LA-ICP-MS) of zircons from samples JBR-19 - Ipu Formation (uppermost succession).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | Ratios c |  |  |  |  |  |  |  |  | Dates c |  |  |  |
| Identifier | 207Pb/206Pb | 2s (%) | 207Pb/235U | 2s (%) | 206Pb/238U | 2s (%) | Rho | 208Pb/232Th | *2s (%)* | 207Pb/206Pb | 2s | 2ssys | 206Pb/238U | 2s | 2ssys | % conc |
|  |  |  | Data for Wetherill plot c | | | | |  |  |  | abs | abs |  | abs | abs |  |
| 1.sSMPABC007 | 0.0600116 | 1.9785387 | 0.80918818 | 2.45620391 | 0.09779419 | 1.45544572 | 0.592559 | 0.01914 | 1.2539185 | 604 | 43 | 48.0 | 601.5 | 8.4 | 12.1 | 100.0 |
| 1.sSMPABC008 | 0.06085599 | 3.86685127 | 0.85478184 | 4.52783694 | 0.10187103 | 2.35558243 | 0.52024454 | 0.02822 | 4.25230333 | 634 | 83 | 86.0 | 625.4 | 14.1 | 16.7 | 99.8 |
| 1.sSMPABC010 | 0.0600846 | 3.98826059 | 0.80620884 | 4.66003647 | 0.09731574 | 2.41033552 | 0.51723534 | 0.02722 | 1.61645849 | 607 | 86 | 88.9 | 598.7 | 13.8 | 16.3 | 99.8 |
| 1.sSMPABC011 | 0.06041 | 2.05264029 | 0.83249363 | 2.43851618 | 0.09994724 | 1.3164456 | 0.53985518 | 0.02501 | 1.03958417 | 618 | 44 | 49.3 | 614.1 | 7.7 | 11.7 | 99.9 |
| 1.sSMPABC014 | 0.13557291 | 2.0080512 | 7.44913639 | 2.39266666 | 0.39850312 | 1.3009935 | 0.54374206 | 0.09506 | 0.88365243 | 2171 | 35 | 39.1 | 2162.1 | 24.0 | 36.7 | 99.9 |
| 1.sSMPABC015 | 0.18244224 | 2.24771439 | 12.8648013 | 2.64028151 | 0.51141848 | 1.38523157 | 0.52465298 | 0.10892 | 0.78957033 | 2675 | 37 | 40.7 | 2662.7 | 30.4 | 44.8 | 99.9 |
| 1.sSMPABC016 | 0.13140251 | 2.50841397 | 6.99840152 | 2.8840587 | 0.38627261 | 1.4232547 | 0.4934902 | 0.08756 | 0.91365921 | 2117 | 44 | 47.4 | 2105.5 | 25.7 | 37.4 | 99.9 |
| 1.sSMPABC018 | 0.1052295 | 1.97173064 | 4.47378018 | 2.373548 | 0.30834427 | 1.32136611 | 0.55670503 | 0.07001 | 0.82845308 | 1718 | 36 | 40.7 | 1732.6 | 20.2 | 30.5 | 100.5 |
| 1.sSMPABC019 | 0.05901563 | 4.21225464 | 0.77953688 | 4.92573917 | 0.09580063 | 2.55339328 | 0.51837769 | 0.02587 | 1.62350213 | 568 | 92 | 94.3 | 589.8 | 14.4 | 16.8 | 100.8 |
| 1.sSMPABC020 | 0.13529 | 2.09919432 | 7.42131968 | 2.44972355 | 0.39784524 | 1.26274647 | 0.51546489 | 0.10071 | 1.70787409 | 2168 | 37 | 40.6 | 2159.1 | 23.3 | 36.2 | 99.9 |
| 1.sSMPABC027 | 0.06016 | 2.16090426 | 0.81466185 | 2.55324991 | 0.09821284 | 1.35999188 | 0.5326513 | 0.02461 | 1.38155221 | 609 | 47 | 51.5 | 603.9 | 7.9 | 11.7 | 99.9 |
| 1.sSMPABC030 | 0.05990567 | 2.03810013 | 0.80858317 | 2.43071817 | 0.09789387 | 1.32459001 | 0.54493772 | 0.02656 | 1.05421687 | 600 | 44 | 49.2 | 602.1 | 7.6 | 11.6 | 100.1 |
| 1.sSMPABC031 | 0.1399836 | 2.50481985 | 7.88541175 | 2.87417654 | 0.40855067 | 1.4095277 | 0.49041097 | 0.10091 | 1.64503022 | 2227 | 43 | 46.7 | 2208.3 | 26.5 | 38.7 | 99.7 |
| 1.sSMPABC034 | 0.13313435 | 2.51175564 | 7.19603152 | 2.91704 | 0.39201407 | 1.48330912 | 0.50849804 | 0.08121 | 0.88659032 | 2140 | 44 | 47.3 | 2132.2 | 27.0 | 38.5 | 100.0 |
| 1.sSMPABC035 | 0.10676214 | 2.35881126 | 4.56329693 | 2.78854701 | 0.30999892 | 1.48728069 | 0.53335328 | 0.06789 | 1.5024304 | 1745 | 43 | 47.0 | 1740.7 | 22.8 | 32.4 | 100.0 |
| 1.sSMPABC037 | 0.13369014 | 2.51331891 | 7.24224134 | 2.86066058 | 0.39289124 | 1.36623828 | 0.47759538 | 0.09737 | 1.12971141 | 2147 | 44 | 47.3 | 2136.2 | 24.9 | 37.1 | 99.9 |
| 1.sSMPABC047 | 0.0593 | 2.09106239 | 0.76528175 | 2.49614224 | 0.09359775 | 1.36315229 | 0.54610361 | 0.02355 | 1.01910828 | 578 | 45 | 50.4 | 576.8 | 7.5 | 11.2 | 100.0 |
| 1.sSMPABC048 | 0.06054698 | 2.05589555 | 0.84611441 | 2.46580417 | 0.1013527 | 1.36142708 | 0.55212295 | 0.02578 | 0.93095423 | 623 | 44 | 49.3 | 622.3 | 8.1 | 12.1 | 100.0 |
| 1.sSMPABC049 | 0.05848085 | 3.49689711 | 0.7356618 | 4.10320825 | 0.09123537 | 2.14663191 | 0.52315939 | 0.0246 | 1.8699187 | 548 | 76 | 79.5 | 562.8 | 11.6 | 14.2 | 100.6 |
| 1.sSMPABC052 | 0.05879696 | 2.68541346 | 0.74343626 | 3.17756328 | 0.09170386 | 1.69866505 | 0.53458103 | 0.02407 | 1.57872871 | 560 | 59 | 62.5 | 565.6 | 9.2 | 12.3 | 100.3 |
| 1.sSMPABC054 | 0.13106106 | 2.03429948 | 6.68246876 | 2.41428105 | 0.36979582 | 1.30014561 | 0.53852289 | 0.0953 | 1.51101784 | 2112 | 36 | 39.8 | 2028.4 | 22.7 | 34.8 | 98.1 |
| 1.sSMPABC055 | 0.16465844 | 1.95556357 | 10.7212017 | 2.3864313 | 0.47223502 | 1.36778121 | 0.57314921 | 0.10975 | 0.78359909 | 2504 | 33 | 37.0 | 2493.4 | 28.4 | 42.2 | 99.9 |
| 1.sSMPABC056 | 0.13339878 | 2.55509087 | 7.15330601 | 2.91774592 | 0.38891408 | 1.40881223 | 0.48284267 | 0.09746 | 1.70326288 | 2143 | 45 | 48.0 | 2117.8 | 25.5 | 37.4 | 99.5 |
| 1.sSMPABC057 | 0.07061586 | 2.04379089 | 1.53409674 | 2.502266 | 0.15756119 | 1.44369454 | 0.57695487 | 0.03564 | 1.2345679 | 946 | 42 | 46.6 | 943.2 | 12.7 | 18.4 | 100.0 |
| 1.sSMPABC059 | 0.05924215 | 2.16587079 | 0.75737019 | 2.57904979 | 0.09272058 | 1.4001791 | 0.54290503 | 0.02538 | 1.2608353 | 576 | 47 | 51.9 | 571.6 | 7.7 | 11.3 | 99.9 |
| 1.sSMPABC069 | 0.25815252 | 2.04540272 | 23.0261928 | 2.4304633 | 0.64691094 | 1.31281361 | 0.54014953 | 0.16383 | 1.5992187 | 3235 | 32 | 35.9 | 3216.1 | 33.4 | 50.8 | 99.8 |
| 1.sSMPABC070 | 0.06122662 | 2.02651989 | 0.88590517 | 2.45594361 | 0.10494111 | 1.38739905 | 0.56491487 | 0.02754 | 0.79883805 | 647 | 44 | 48.6 | 643.3 | 8.5 | 12.6 | 99.9 |
| 1.sSMPABC071 | 0.1335996 | 2.0669816 | 7.01002251 | 2.4929379 | 0.38055109 | 1.39367373 | 0.55904871 | 0.09392 | 1.51192504 | 2146 | 36 | 40.2 | 2078.9 | 24.9 | 36.6 | 98.5 |
| 1.sSMPABC076 | 0.06068063 | 2.04411992 | 0.85557119 | 2.46884703 | 0.10225977 | 1.38447802 | 0.56077918 | 0.02674 | 1.12191473 | 628 | 44 | 49.1 | 627.6 | 8.3 | 12.3 | 100.1 |
| 1.sSMPABC077 | 0.05843 | 2.08796851 | 0.71020821 | 2.5025067 | 0.08815532 | 1.3794663 | 0.55123381 | 0.02408 | 1.24584718 | 546 | 46 | 50.6 | 544.6 | 7.2 | 10.7 | 100.0 |
| 1.sSMPABC079 | 0.05897 | 2.17059522 | 0.73614186 | 2.58793385 | 0.09053763 | 1.40922603 | 0.54453711 | 0.02574 | 1.32090132 | 566 | 47 | 52.1 | 558.7 | 7.6 | 11.1 | 99.8 |
| 1.sSMPABC087 | 0.05918 | 2.06150727 | 0.74860486 | 2.49895357 | 0.09174373 | 1.41242938 | 0.56520833 | 0.0245 | 1.2244898 | 574 | 45 | 49.9 | 565.8 | 7.7 | 11.2 | 99.8 |
| 1.sSMPABC090 | 0.10691432 | 2.73966604 | 4.56671597 | 3.1473877 | 0.3097896 | 1.54928349 | 0.49224425 | 0.07828 | 0.94532448 | 1747 | 50 | 53.4 | 1739.7 | 23.7 | 33.1 | 99.9 |
| 1.sSMPABC091 | 0.05953768 | 3.93487498 | 0.7573844 | 4.6972868 | 0.09226206 | 2.56539708 | 0.54614444 | 0.02671 | 1.04829652 | 587 | 85 | 88.1 | 568.9 | 14.0 | 16.3 | 99.4 |
| 1.sSMPABC092 | 0.05785052 | 4.10459847 | 0.66261586 | 4.94751773 | 0.08307174 | 2.76228223 | 0.55831679 | 0.02474 | 1.45513339 | 524 | 90 | 92.7 | 514.4 | 13.7 | 15.6 | 99.7 |
| 1.sSMPABC093 | 0.154996 | 2.01365958 | 9.20185001 | 2.45158721 | 0.43057953 | 1.39837583 | 0.57039612 | 0.10884 | 1.15766262 | 2402 | 34 | 38.3 | 2308.3 | 27.3 | 40.0 | 98.0 |
| 1.sSMPABC094 | 0.12518452 | 1.93328285 | 6.34584891 | 2.45630777 | 0.36765274 | 1.5152113 | 0.61686541 | 0.08565 | 1.54115587 | 2031 | 34 | 38.6 | 2018.3 | 26.4 | 37.2 | 99.8 |
| 1.sSMPABC095 | 0.05974 | 2.04218279 | 0.77695368 | 2.48509233 | 0.0943254 | 1.41604142 | 0.56981441 | 0.02599 | 1.07733744 | 594 | 44 | 49.3 | 581.1 | 7.9 | 11.5 | 99.6 |
| 1.sSMPABC096 | 0.05927639 | 3.95222024 | 0.75544538 | 4.74199769 | 0.09243151 | 2.62040021 | 0.55259416 | 0.02462 | 1.2997563 | 577 | 86 | 88.6 | 569.9 | 14.4 | 16.5 | 99.8 |
| 1.sSMPABC097 | 0.05781859 | 2.36197505 | 0.6729777 | 2.76151789 | 0.08441739 | 1.43075326 | 0.51810393 | 0.02439 | 2.0500205 | 523 | 52 | 56.3 | 522.4 | 7.2 | 10.5 | 100.0 |
| 1.sSMPABC098 | 0.05942337 | 2.09832284 | 0.77389744 | 2.55668863 | 0.09445498 | 1.46071832 | 0.57133211 | 0.02604 | 1.07526882 | 583 | 46 | 50.5 | 581.8 | 8.2 | 11.7 | 100.0 |
| 1.sSMPABC099 | 0.05884305 | 4.16843645 | 0.724529 | 4.96627035 | 0.08930162 | 2.69962566 | 0.54359217 | 0.02642 | 2.27100681 | 561 | 91 | 93.4 | 551.4 | 14.3 | 16.4 | 99.7 |
| 1.sSMPABC100 | 0.05876 | 2.21238938 | 0.70719341 | 2.67709126 | 0.08728812 | 1.50736554 | 0.56306094 | 0.02588 | 1.62287481 | 558 | 48 | 53.0 | 539.5 | 7.8 | 11.1 | 99.4 |
| 1.sSMPABC107 | 0.13348231 | 2.50520813 | 7.22456179 | 2.92015486 | 0.39254237 | 1.50041216 | 0.51381253 | 0.10042 | 1.01573392 | 2144 | 44 | 47.2 | 2134.6 | 27.4 | 38.8 | 99.9 |
| 1.sSMPABC108 | 0.09284587 | 1.85344171 | 3.29957952 | 2.38692665 | 0.25774766 | 1.50405208 | 0.63012078 | 0.05889 | 1.32450331 | 1485 | 35 | 39.9 | 1478.3 | 20.0 | 28.2 | 99.9 |
| 1.sSMPABC110 | 0.06042244 | 3.94782471 | 0.8299247 | 4.65469814 | 0.0996183 | 2.46594706 | 0.52977593 | 0.02808 | 1.63817664 | 619 | 85 | 87.9 | 612.2 | 14.5 | 16.9 | 99.8 |
| 1.sSMPABC111 | 0.10367358 | 2.92541895 | 4.24605299 | 3.30453501 | 0.29704077 | 1.53683948 | 0.46506981 | 0.078 | 2.41025641 | 1691 | 54 | 57.0 | 1676.6 | 22.8 | 31.9 | 99.7 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Supplementary Material B** - U-Pb data (LA-ICP-MS) of reference materials employed.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | Ratios c |  |  |  |  |  |  |  |  | Dates c |  |  |  |
| Identifier | 207Pb/206Pb | 2s (%) | 207Pb/235U | 2s (%) | 206Pb/238U | 2s (%) | Rho | 208Pb/232Th | *2s (%)* | 207Pb/206Pb | 2s | 2ssys | 206Pb/238U | 2s | 2ssys | % conc |
|  |  |  | Data for Wetherill plot c | | | | |  |  |  | abs | abs |  | abs | abs |  |
| PRIMARY REF. MAT. | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.sSMPABC161 | 0.05865918 | 2.01162606 | 0.73308975 | 2.48344312 | 0.09064 | 1.45631396 | 0.58640922 | 0.02724 | 1.24816446 | 554.5 | 43.9 | 49.1 | 559.3 | 7.8 | 11.2 | 100.2 |
| 1.sSMPABC162 | 0.05909 | 2.03080047 | 0.73301521 | 2.5053336 | 0.08997 | 1.46715572 | 0.58561292 | 0.02704 | 1.25739645 | 570.4 | 44.2 | 49.3 | 555.4 | 7.8 | 11.2 | 99.5 |
| 1.sSMPABC181 | 0.05869592 | 2.04457208 | 0.7315257 | 2.51258828 | 0.09039 | 1.46041943 | 0.58124104 | 0.02784 | 1.22126437 | 555.8 | 44.6 | 49.8 | 557.8 | 7.8 | 12.4 | 100.1 |
| 1.sSMPABC182 | 0.05906 | 1.99796817 | 0.75006949 | 2.48433406 | 0.09211 | 1.47649549 | 0.59432244 | 0.02925 | 0.95726496 | 569.3 | 43.5 | 53.1 | 568.0 | 8.0 | 13.4 | 100.0 |
| 1.sSMPABC201 | 0.05901 | 2.03355363 | 0.74186772 | 2.52191935 | 0.09118 | 1.49155517 | 0.59143651 | 0.02768 | 1.15606936 | 567.5 | 44.3 | 98.6 | 562.5 | 8.0 | 14.1 | 99.8 |
| 1.sSMPABC202 | 0.05910326 | 2.04119851 | 0.74768521 | 2.5262639 | 0.09175 | 1.4884616 | 0.58919482 | 0.02824 | 1.06232295 | 570.9 | 44.4 | 52.0 | 565.9 | 8.1 | 7.2 | 99.8 |
| 1.sSMPABC221 | 0.05905057 | 2.03520959 | 0.75076386 | 2.52723838 | 0.09221 | 1.49828426 | 0.59285435 | 0.02762 | 1.01375815 | 569.0 | 44.3 | 50.4 | 568.6 | 8.2 | 13.0 | 100.0 |
| 1.sSMPABC222 | 0.05853915 | 2.01673992 | 0.73917675 | 2.5048401 | 0.09158 | 1.48559214 | 0.59308861 | 0.02798 | 1.0007148 | 550.0 | 44.0 | 37.8 | 564.9 | 8.0 | 36.5 | 100.5 |
| 1.sSMPABC241 | 0.05971551 | 2.01116931 | 0.76012364 | 2.50639024 | 0.09232 | 1.49572391 | 0.59676418 | 0.03047 | 0.98457499 | 593.3 | 43.6 | 81.4 | 569.2 | 8.2 | 19.1 | 99.2 |
| 1.sSMPABC242 | 0.05869237 | 3.95648379 | 0.74523871 | 4.75563176 | 0.09209 | 2.63861127 | 0.55483927 | 0.02818 | 0.99361249 | 555.7 | 86.3 | 49.4 | 567.9 | 14.4 | 12.2 | 100.4 |
| 1.sSMPABC261 | 0.05899 | 2.03424309 | 0.73470278 | 2.53079988 | 0.09033 | 1.50559061 | 0.59490702 | 0.02814 | 1.13717129 | 566.7 | 44.3 | 49.6 | 557.5 | 8.0 | 15.9 | 99.7 |
| 1.sSMPABC262 | 0.05874555 | 2.06726465 | 0.73238718 | 2.57617907 | 0.09042 | 1.53724281 | 0.59671427 | 0.02881 | 1.0413051 | 557.7 | 45.1 | 52.9 | 558.0 | 8.2 | 13.3 | 100.0 |
| ~~1.sSMPABC281~~ | ~~0.05863~~ | ~~2.01262152~~ | ~~0.75107556~~ | ~~2.52715889~~ | ~~0.09291~~ | ~~1.52836078~~ | ~~0.60477431~~ | ~~0.02802~~ | ~~1.07066381~~ | ~~553.4~~ | ~~43.9~~ | ~~53.4~~ | ~~572.7~~ | ~~8.4~~ | ~~13.0~~ | ~~100.7~~ |
| ~~1.sSMPABC282~~ | ~~0.05869359~~ | ~~2.01078533~~ | ~~0.7486531~~ | ~~2.51675246~~ | ~~0.09251~~ | ~~1.51353404~~ | ~~0.60138375~~ | ~~0.02764~~ | ~~1.0130246~~ | ~~555.7~~ | ~~43.9~~ | ~~53.7~~ | ~~570.4~~ | ~~8.3~~ | ~~12.3~~ | ~~100.5~~ |
| 1.sSMPABC301 | 0.05840207 | 3.97615074 | 0.74284099 | 4.78325444 | 0.09225 | 2.65889983 | 0.55587673 | 0.0271 | 1.10701107 | 544.9 | 86.9 | 48.7 | 568.8 | 14.5 | 37.5 | 100.8 |
| 1.sSMPABC302 | 0.05813241 | 2.03639983 | 0.7242622 | 2.54761928 | 0.09036 | 1.53082975 | 0.60088639 | 0.02741 | 1.38635534 | 534.8 | 44.6 | 39.6 | 557.7 | 8.2 | 37.5 | 100.8 |
| 1.sSMPABC321 | 0.0588386 | 2.04321761 | 0.73987518 | 2.55687082 | 0.0912 | 1.53715653 | 0.60118662 | 0.02944 | 1.35869565 | 561.1 | 44.5 | 48.2 | 562.6 | 8.3 | 36.7 | 100.1 |
| 1.sSMPABC322 | 0.05883 | 2.03977562 | 0.73571127 | 2.55797414 | 0.0907 | 1.54355017 | 0.60342681 | 0.02729 | 1.39245145 | 560.8 | 44.5 | 46.8 | 559.7 | 8.3 | 38.7 | 100.0 |
| 1.sSMPABC341 | 0.0586 | 2.04778157 | 0.73566288 | 2.57404495 | 0.09105 | 1.55958265 | 0.60588788 | 0.02804 | 1.42653352 | 552.3 | 44.7 | 48.5 | 561.7 | 8.4 | 37.7 | 100.3 |
| 1.sSMPABC342 | 0.05929833 | 2.05741568 | 0.7409957 | 2.57278585 | 0.09063 | 1.54475492 | 0.6004211 | 0.02865 | 1.39616056 | 578.1 | 44.7 | 48.4 | 559.3 | 8.3 | 12.5 | 99.3 |
| ~~1.sSMPABC361~~ | ~~0.05886~~ | ~~2.03873598~~ | ~~0.75158727~~ | ~~2.56401683~~ | ~~0.09261~~ | ~~1.55490768~~ | ~~0.60643427~~ | ~~0.0279~~ | ~~1.43369176~~ | ~~561.9~~ | ~~44.4~~ | ~~57.8~~ | ~~571.0~~ | ~~8.5~~ | ~~15.1~~ | ~~100.3~~ |
| 1.sSMPABC362 | 0.0593477 | 2.05957631 | 0.7431674 | 2.58714726 | 0.09082 | 1.56571912 | 0.60519134 | 0.02785 | 1.43626571 | 579.9 | 44.7 | 57.8 | 560.4 | 8.4 | 15.2 | 99.3 |
| 1.sSMPABC161 | 0.05865918 | 2.01162606 | 0.73308975 | 2.48344312 | 0.09064 | 1.45631396 | 0.58640922 | 0.02724 | 1.24816446 | 554.5 | 43.9 | 49.1 | 559.3 | 7.8 | 11.2 | 100.2 |
| 1.sSMPABC162 | 0.05909 | 2.03080047 | 0.73301521 | 2.5053336 | 0.08997 | 1.46715572 | 0.58561292 | 0.02704 | 1.25739645 | 570.4 | 44.2 | 49.3 | 555.4 | 7.8 | 11.2 | 99.5 |
| 1.sSMPABC181 | 0.05869592 | 2.04457208 | 0.7315257 | 2.51258828 | 0.09039 | 1.46041943 | 0.58124104 | 0.02784 | 1.22126437 | 555.8 | 44.6 | 49.8 | 557.8 | 7.8 | 12.4 | 100.1 |
| 1.sSMPABC182 | 0.05906 | 1.99796817 | 0.75006949 | 2.48433406 | 0.09211 | 1.47649549 | 0.59432244 | 0.02925 | 0.95726496 | 569.3 | 43.5 | 53.1 | 568.0 | 8.0 | 13.4 | 100.0 |
| 1.sSMPABC201 | 0.05901 | 2.03355363 | 0.74186772 | 2.52191935 | 0.09118 | 1.49155517 | 0.59143651 | 0.02768 | 1.15606936 | 567.5 | 44.3 | 98.6 | 562.5 | 8.0 | 14.1 | 99.8 |
| 1.sSMPABC202 | 0.05910326 | 2.04119851 | 0.74768521 | 2.5262639 | 0.09175 | 1.4884616 | 0.58919482 | 0.02824 | 1.06232295 | 570.9 | 44.4 | 52.0 | 565.9 | 8.1 | 7.2 | 99.8 |
| 1.sSMPABC221 | 0.05905057 | 2.03520959 | 0.75076386 | 2.52723838 | 0.09221 | 1.49828426 | 0.59285435 | 0.02762 | 1.01375815 | 569.0 | 44.3 | 50.4 | 568.6 | 8.2 | 13.0 | 100.0 |
| 1.sSMPABC222 | 0.05853915 | 2.01673992 | 0.73917675 | 2.5048401 | 0.09158 | 1.48559214 | 0.59308861 | 0.02798 | 1.0007148 | 550.0 | 44.0 | 37.8 | 564.9 | 8.0 | 36.5 | 100.5 |
| 1.sSMPABC241 | 0.05971551 | 2.01116931 | 0.76012364 | 2.50639024 | 0.09232 | 1.49572391 | 0.59676418 | 0.03047 | 0.98457499 | 593.3 | 43.6 | 81.4 | 569.2 | 8.2 | 19.1 | 99.2 |
| 1.sSMPABC242 | 0.05869237 | 3.95648379 | 0.74523871 | 4.75563176 | 0.09209 | 2.63861127 | 0.55483927 | 0.02818 | 0.99361249 | 555.7 | 86.3 | 49.4 | 567.9 | 14.4 | 12.2 | 100.4 |
| 1.sSMPABC261 | 0.05899 | 2.03424309 | 0.73470278 | 2.53079988 | 0.09033 | 1.50559061 | 0.59490702 | 0.02814 | 1.13717129 | 566.7 | 44.3 | 49.6 | 557.5 | 8.0 | 15.9 | 99.7 |
| 1.sSMPABC262 | 0.05874555 | 2.06726465 | 0.73238718 | 2.57617907 | 0.09042 | 1.53724281 | 0.59671427 | 0.02881 | 1.0413051 | 557.7 | 45.1 | 52.9 | 558.0 | 8.2 | 13.3 | 100.0 |
| ~~1.sSMPABC281~~ | ~~0.05863~~ | ~~2.01262152~~ | ~~0.75107556~~ | ~~2.52715889~~ | ~~0.09291~~ | ~~1.52836078~~ | ~~0.60477431~~ | ~~0.02802~~ | ~~1.07066381~~ | ~~553.4~~ | ~~43.9~~ | ~~53.4~~ | ~~572.7~~ | ~~8.4~~ | ~~13.0~~ | ~~100.7~~ |
| ~~1.sSMPABC282~~ | ~~0.05869359~~ | ~~2.01078533~~ | ~~0.7486531~~ | ~~2.51675246~~ | ~~0.09251~~ | ~~1.51353404~~ | ~~0.60138375~~ | ~~0.02764~~ | ~~1.0130246~~ | ~~555.7~~ | ~~43.9~~ | ~~53.7~~ | ~~570.4~~ | ~~8.3~~ | ~~12.3~~ | ~~100.5~~ |
| 1.sSMPABC301 | 0.05840207 | 3.97615074 | 0.74284099 | 4.78325444 | 0.09225 | 2.65889983 | 0.55587673 | 0.0271 | 1.10701107 | 544.9 | 86.9 | 48.7 | 568.8 | 14.5 | 37.5 | 100.8 |
| 1.sSMPABC302 | 0.05813241 | 2.03639983 | 0.7242622 | 2.54761928 | 0.09036 | 1.53082975 | 0.60088639 | 0.02741 | 1.38635534 | 534.8 | 44.6 | 39.6 | 557.7 | 8.2 | 37.5 | 100.8 |
| 1.sSMPABC321 | 0.0588386 | 2.04321761 | 0.73987518 | 2.55687082 | 0.0912 | 1.53715653 | 0.60118662 | 0.02944 | 1.35869565 | 561.1 | 44.5 | 48.2 | 562.6 | 8.3 | 36.7 | 100.1 |
| 1.sSMPABC322 | 0.05883 | 2.03977562 | 0.73571127 | 2.55797414 | 0.0907 | 1.54355017 | 0.60342681 | 0.02729 | 1.39245145 | 560.8 | 44.5 | 46.8 | 559.7 | 8.3 | 38.7 | 100.0 |
| 1.sSMPABC341 | 0.0586 | 2.04778157 | 0.73566288 | 2.57404495 | 0.09105 | 1.55958265 | 0.60588788 | 0.02804 | 1.42653352 | 552.3 | 44.7 | 48.5 | 561.7 | 8.4 | 37.7 | 100.3 |
| 1.sSMPABC342 | 0.05929833 | 2.05741568 | 0.7409957 | 2.57278585 | 0.09063 | 1.54475492 | 0.6004211 | 0.02865 | 1.39616056 | 578.1 | 44.7 | 48.4 | 559.3 | 8.3 | 12.5 | 99.3 |
| ~~1.sSMPABC361~~ | ~~0.05886~~ | ~~2.03873598~~ | ~~0.75158727~~ | ~~2.56401683~~ | ~~0.09261~~ | ~~1.55490768~~ | ~~0.60643427~~ | ~~0.0279~~ | ~~1.43369176~~ | ~~561.9~~ | ~~44.4~~ | ~~57.8~~ | ~~571.0~~ | ~~8.5~~ | ~~15.1~~ | ~~100.3~~ |
| 1.sSMPABC362 | 0.0593477 | 2.05957631 | 0.7431674 | 2.58714726 | 0.09082 | 1.56571912 | 0.60519134 | 0.02785 | 1.43626571 | 579.9 | 44.7 | 57.8 | 560.4 | 8.4 | 15.2 | 99.3 |
| ~~1.sSMPABC001~~ | ~~0.06436631~~ | ~~2.31976121~~ | ~~0.86689314~~ | ~~2.71307115~~ | ~~0.09768~~ | ~~1.40693391~~ | ~~0.51857612~~ | ~~0.04164~~ | ~~2.49759846~~ | ~~753.7~~ | ~~49.0~~ | ~~53.4~~ | ~~600.8~~ | ~~8.1~~ | ~~11.8~~ | ~~94.8~~ |
| ~~1.sSMPABC002~~ | ~~0.05876616~~ | ~~2.5046945~~ | ~~0.80094978~~ | ~~2.85685119~~ | ~~0.09885~~ | ~~1.37408303~~ | ~~0.48097816~~ | ~~0.03237~~ | ~~3.27463701~~ | ~~558.4~~ | ~~54.6~~ | ~~58.8~~ | ~~607.7~~ | ~~8.0~~ | ~~11.8~~ | ~~101.7~~ |
| ~~1.sSMPABC021~~ | ~~0.05867204~~ | ~~3.99292976~~ | ~~0.76504304~~ | ~~4.69896221~~ | ~~0.09457~~ | ~~2.47724801~~ | ~~0.52719045~~ | ~~0.02859~~ | ~~1.46904512~~ | ~~554.9~~ | ~~87.1~~ | ~~67.5~~ | ~~582.5~~ | ~~13.8~~ | ~~12.3~~ | ~~101.0~~ |
| ~~1.sSMPABC022~~ | ~~0.05911642~~ | ~~2.06518541~~ | ~~0.77034842~~ | ~~2.42476944~~ | ~~0.09451~~ | ~~1.27063608~~ | ~~0.52402347~~ | ~~0.02916~~ | ~~1.44032922~~ | ~~571.4~~ | ~~44.9~~ | ~~95.2~~ | ~~582.2~~ | ~~7.1~~ | ~~17.0~~ | ~~100.4~~ |
| 1.sSMPABC041 | 0.05861624 | 3.97906942 | 0.74200904 | 4.72089444 | 0.09181 | 2.54044304 | 0.53812748 | 0.02932 | 1.4324693 | 552.9 | 86.8 | 53.3 | 566.2 | 13.8 | 6.8 | 100.5 |
| 1.sSMPABC042 | 0.05864 | 2.04638472 | 0.73212239 | 2.42608402 | 0.09055 | 1.30314743 | 0.53714027 | 0.02832 | 1.48305085 | 553.8 | 44.7 | 51.1 | 558.8 | 7.0 | 6.8 | 100.2 |
| 1.sSMPABC061 | 0.05916 | 2.06220419 | 0.73388356 | 2.45594171 | 0.08997 | 1.33377793 | 0.54308208 | 0.02744 | 1.60349854 | 573.0 | 44.9 | 48.0 | 555.4 | 7.1 | 12.1 | 99.4 |
| 1.sSMPABC062 | 0.05911635 | 2.06815663 | 0.7308968 | 2.4529401 | 0.08967 | 1.31895538 | 0.53770387 | 0.02725 | 1.5412844 | 571.4 | 45.0 | 86.0 | 553.6 | 7.0 | 16.7 | 99.4 |
| 1.sSMPABC081 | 0.05926194 | 3.95318364 | 0.73187976 | 4.73374574 | 0.08957 | 2.60397539 | 0.55008772 | 0.02764 | 1.5918958 | 576.7 | 85.9 | 47.9 | 553.0 | 13.8 | 4.4 | 99.2 |
| 1.sSMPABC082 | 0.05917506 | 3.95898789 | 0.73349924 | 4.73966982 | 0.0899 | 2.60593264 | 0.54981312 | 0.02765 | 1.59132007 | 573.5 | 86.1 | 88.9 | 554.9 | 13.9 | 16.3 | 99.3 |
| 1.sSMPABC101 | 0.05870361 | 2.08041073 | 0.72806016 | 2.49646593 | 0.08995 | 1.37993961 | 0.55275724 | 0.02718 | 1.76600442 | 556.1 | 45.4 | 49.3 | 555.2 | 7.3 | 11.7 | 100.0 |
| 1.sSMPABC102 | 0.05880471 | 3.98392127 | 0.72923296 | 4.7662665 | 0.08994 | 2.6164227 | 0.54894595 | 0.027 | 1.7037037 | 559.9 | 86.8 | 42.7 | 555.2 | 13.9 | 36.0 | 99.8 |
| 1.sSMPABC121 | 0.05868304 | 2.07935764 | 0.73379256 | 2.51325799 | 0.09069 | 1.41164356 | 0.56167873 | 0.02872 | 1.74094708 | 555.4 | 45.4 | 52.3 | 559.6 | 7.6 | 10.6 | 100.2 |
| 1.sSMPABC122 | 0.05859012 | 2.08951907 | 0.73432709 | 2.52220692 | 0.0909 | 1.41259966 | 0.56006494 | 0.02834 | 1.76429076 | 551.9 | 45.6 | 39.1 | 560.9 | 7.6 | 36.7 | 100.3 |
| 1.sSMPABC141 | 0.05925603 | 3.97125932 | 0.76211824 | 4.73620343 | 0.09328 | 2.58083752 | 0.54491695 | 0.02861 | 1.74764069 | 576.5 | 86.3 | 40.7 | 574.9 | 14.2 | 44.8 | 99.9 |
| 1.sSMPABC142 | 0.05987083 | 3.93047925 | 0.76754898 | 4.70663791 | 0.09298 | 2.5891646 | 0.55010915 | 0.02906 | 1.78940124 | 598.9 | 85.1 | 47.4 | 573.1 | 14.2 | 37.4 | 99.1 |
| 1.sSMPABC161 | 0.05806 | 2.06682742 | 0.74361351 | 2.53285541 | 0.09289 | 1.46409732 | 0.5780422 | 0.02825 | 1.91150442 | 532.0 | 45.3 | 52.3 | 572.6 | 8.0 | 12.0 | 101.4 |
| 1.sSMPABC162 | 0.05894 | 2.10383441 | 0.74765154 | 2.55882293 | 0.092 | 1.45652174 | 0.56921553 | 0.02854 | 1.89208129 | 564.9 | 45.8 | 40.7 | 567.4 | 7.9 | 30.5 | 100.1 |
| ~~1.sSMPABC001~~ | ~~0.06436631~~ | ~~2.31976121~~ | ~~0.86689314~~ | ~~2.71307115~~ | ~~0.09768~~ | ~~1.40693391~~ | ~~0.51857612~~ | ~~0.04164~~ | ~~2.49759846~~ | ~~753.7~~ | ~~49.0~~ | ~~53.4~~ | ~~600.8~~ | ~~8.1~~ | ~~11.8~~ | ~~94.8~~ |
| ~~1.sSMPABC002~~ | ~~0.05876616~~ | ~~2.5046945~~ | ~~0.80094978~~ | ~~2.85685119~~ | ~~0.09885~~ | ~~1.37408303~~ | ~~0.48097816~~ | ~~0.03237~~ | ~~3.27463701~~ | ~~558.4~~ | ~~54.6~~ | ~~58.8~~ | ~~607.7~~ | ~~8.0~~ | ~~11.8~~ | ~~101.7~~ |
| ~~1.sSMPABC021~~ | ~~0.05867204~~ | ~~3.99292976~~ | ~~0.76504304~~ | ~~4.69896221~~ | ~~0.09457~~ | ~~2.47724801~~ | ~~0.52719045~~ | ~~0.02859~~ | ~~1.46904512~~ | ~~554.9~~ | ~~87.1~~ | ~~67.5~~ | ~~582.5~~ | ~~13.8~~ | ~~12.3~~ | ~~101.0~~ |
| ~~1.sSMPABC022~~ | ~~0.05911642~~ | ~~2.06518541~~ | ~~0.77034842~~ | ~~2.42476944~~ | ~~0.09451~~ | ~~1.27063608~~ | ~~0.52402347~~ | ~~0.02916~~ | ~~1.44032922~~ | ~~571.4~~ | ~~44.9~~ | ~~95.2~~ | ~~582.2~~ | ~~7.1~~ | ~~17.0~~ | ~~100.4~~ |
| 1.sSMPABC041 | 0.05861624 | 3.97906942 | 0.74200904 | 4.72089444 | 0.09181 | 2.54044304 | 0.53812748 | 0.02932 | 1.4324693 | 552.9 | 86.8 | 53.3 | 566.2 | 13.8 | 6.8 | 100.5 |
| 1.sSMPABC042 | 0.05864 | 2.04638472 | 0.73212239 | 2.42608402 | 0.09055 | 1.30314743 | 0.53714027 | 0.02832 | 1.48305085 | 553.8 | 44.7 | 51.1 | 558.8 | 7.0 | 6.8 | 100.2 |
| 1.sSMPABC061 | 0.05916 | 2.06220419 | 0.73388356 | 2.45594171 | 0.08997 | 1.33377793 | 0.54308208 | 0.02744 | 1.60349854 | 573.0 | 44.9 | 48.0 | 555.4 | 7.1 | 12.1 | 99.4 |
| 1.sSMPABC062 | 0.05911635 | 2.06815663 | 0.7308968 | 2.4529401 | 0.08967 | 1.31895538 | 0.53770387 | 0.02725 | 1.5412844 | 571.4 | 45.0 | 86.0 | 553.6 | 7.0 | 16.7 | 99.4 |
| 1.sSMPABC081 | 0.05926194 | 3.95318364 | 0.73187976 | 4.73374574 | 0.08957 | 2.60397539 | 0.55008772 | 0.02764 | 1.5918958 | 576.7 | 85.9 | 47.9 | 553.0 | 13.8 | 4.4 | 99.2 |
| 1.sSMPABC082 | 0.05917506 | 3.95898789 | 0.73349924 | 4.73966982 | 0.0899 | 2.60593264 | 0.54981312 | 0.02765 | 1.59132007 | 573.5 | 86.1 | 88.9 | 554.9 | 13.9 | 16.3 | 99.3 |
| 1.sSMPABC101 | 0.05870361 | 2.08041073 | 0.72806016 | 2.49646593 | 0.08995 | 1.37993961 | 0.55275724 | 0.02718 | 1.76600442 | 556.1 | 45.4 | 49.3 | 555.2 | 7.3 | 11.7 | 100.0 |
| 1.sSMPABC102 | 0.05880471 | 3.98392127 | 0.72923296 | 4.7662665 | 0.08994 | 2.6164227 | 0.54894595 | 0.027 | 1.7037037 | 559.9 | 86.8 | 42.7 | 555.2 | 13.9 | 36.0 | 99.8 |
| 1.sSMPABC121 | 0.05868304 | 2.07935764 | 0.73379256 | 2.51325799 | 0.09069 | 1.41164356 | 0.56167873 | 0.02872 | 1.74094708 | 555.4 | 45.4 | 52.3 | 559.6 | 7.6 | 10.6 | 100.2 |
| 1.sSMPABC122 | 0.05859012 | 2.08951907 | 0.73432709 | 2.52220692 | 0.0909 | 1.41259966 | 0.56006494 | 0.02834 | 1.76429076 | 551.9 | 45.6 | 39.1 | 560.9 | 7.6 | 36.7 | 100.3 |
| 1.sSMPABC141 | 0.05925603 | 3.97125932 | 0.76211824 | 4.73620343 | 0.09328 | 2.58083752 | 0.54491695 | 0.02861 | 1.74764069 | 576.5 | 86.3 | 40.7 | 574.9 | 14.2 | 44.8 | 99.9 |
| 1.sSMPABC142 | 0.05987083 | 3.93047925 | 0.76754898 | 4.70663791 | 0.09298 | 2.5891646 | 0.55010915 | 0.02906 | 1.78940124 | 598.9 | 85.1 | 47.4 | 573.1 | 14.2 | 37.4 | 99.1 |
| 1.sSMPABC161 | 0.05806 | 2.06682742 | 0.74361351 | 2.53285541 | 0.09289 | 1.46409732 | 0.5780422 | 0.02825 | 1.91150442 | 532.0 | 45.3 | 52.3 | 572.6 | 8.0 | 12.0 | 101.4 |
| 1.sSMPABC162 | 0.05894 | 2.10383441 | 0.74765154 | 2.55882293 | 0.092 | 1.45652174 | 0.56921553 | 0.02854 | 1.89208129 | 564.9 | 45.8 | 40.7 | 567.4 | 7.9 | 30.5 | 100.1 |
| SECONDARY REF. MAT. | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.sSMPABC163 | 0.05994 | 2.0687354 | 0.80976592 | 2.57341019 | 0.09798091 | 1.53061224 | 0.59477974 | 0.02903 | 3.99586635 | 601.4 | 44.8 | 49.8 | 602.6 | 8.8 | 12.4 | 100.0 |
| ~~1.sSMPABC164~~ | ~~0.0751578~~ | ~~2.44402043~~ | ~~1.01473081~~ | ~~3.02642467~~ | ~~0.09792092~~ | ~~1.7849399~~ | ~~0.58978501~~ | ~~0.12159~~ | ~~3.48712888~~ | ~~1072.7~~ | ~~49.1~~ | ~~53.1~~ | ~~602.2~~ | ~~10.3~~ | ~~13.4~~ | ~~84.7~~ |
| 1.sSMPABC183 | 0.05983068 | 2.16032966 | 0.80804158 | 2.6739229 | 0.09795092 | 1.57570284 | 0.58928507 | 0.02909 | 3.78136817 | 597.5 | 46.8 | 51.6 | 602.4 | 9.1 | 12.5 | 100.2 |
| 1.sSMPABC184 | 0.05999869 | 3.9221033 | 0.81022795 | 4.67930711 | 0.09794092 | 2.55206207 | 0.54539315 | 0.0272 | 3.45588235 | 603.5 | 84.9 | 87.6 | 602.3 | 14.7 | 17.1 | 100.0 |
| 1.sSMPABC203 | 0.06019993 | 2.12836568 | 0.81319449 | 2.6443149 | 0.09797091 | 1.569223 | 0.59343273 | 0.03007 | 3.79115397 | 610.8 | 46.0 | 50.9 | 602.5 | 9.0 | 12.5 | 99.7 |
| 1.sSMPABC204 | 0.06035 | 2.05468103 | 0.81646958 | 2.56082187 | 0.09812089 | 1.52842878 | 0.59685088 | 0.02543 | 4.08965788 | 616.1 | 44.4 | 49.4 | 603.4 | 8.8 | 12.4 | 99.6 |
| 1.sSMPABC223 | 0.06002 | 2.06597801 | 0.81250148 | 2.56933957 | 0.09818087 | 1.52749491 | 0.59450877 | 0.02566 | 3.89711613 | 604.3 | 44.7 | 49.7 | 603.7 | 8.8 | 12.4 | 100.0 |
| 1.sSMPABC224 | 0.05912514 | 3.96233071 | 0.79908346 | 4.71861206 | 0.09802091 | 2.56227148 | 0.5430138 | 0.02686 | 4.09530901 | 571.7 | 86.2 | 88.9 | 602.8 | 14.8 | 17.1 | 101.1 |
| 1.sSMPABC243 | 0.06059 | 2.04654233 | 0.81696019 | 2.5573854 | 0.09779095 | 1.53358552 | 0.5996693 | 0.03133 | 3.63868497 | 624.7 | 44.1 | 49.2 | 601.5 | 8.8 | 12.3 | 99.2 |
| 1.sSMPABC244 | 0.05990555 | 2.07007376 | 0.80607981 | 2.57817172 | 0.09759099 | 1.5368032 | 0.59608256 | 0.02452 | 4.4045677 | 600.2 | 44.8 | 49.8 | 600.3 | 8.8 | 12.3 | 100.0 |
| 1.sSMPABC263 | 0.0600234 | 2.09860963 | 0.80865854 | 2.60985506 | 0.09771097 | 1.55150928 | 0.59448101 | 0.02838 | 3.38266385 | 604.4 | 45.4 | 50.3 | 601.0 | 8.9 | 12.4 | 99.9 |
| 1.sSMPABC264 | 0.06028339 | 2.06678073 | 0.81340782 | 2.57594254 | 0.09786094 | 1.53749712 | 0.59686779 | 0.02888 | 3.60110803 | 613.8 | 44.6 | 49.6 | 601.9 | 8.8 | 12.4 | 99.6 |
| 1.sSMPABC283 | 0.05975525 | 2.14966484 | 0.80677578 | 2.67554932 | 0.09792092 | 1.59295488 | 0.59537489 | 0.02674 | 4.03889304 | 594.7 | 46.6 | 51.4 | 602.2 | 9.2 | 12.6 | 100.3 |
| 1.sSMPABC284 | 0.06030825 | 2.05711733 | 0.81390951 | 2.57757557 | 0.09788093 | 1.55311432 | 0.60254851 | 0.02899 | 3.51845464 | 614.7 | 44.4 | 49.4 | 602.0 | 8.9 | 12.4 | 99.6 |
| 1.sSMPABC303 | 0.06009091 | 2.16412642 | 0.81172185 | 2.7089198 | 0.09797091 | 1.62935672 | 0.60147839 | 0.0273 | 4.90842491 | 606.8 | 46.8 | 51.6 | 602.5 | 9.4 | 12.8 | 99.9 |
| 1.sSMPABC304 | 0.06012921 | 3.93121845 | 0.81936768 | 4.69453337 | 0.09883075 | 2.56596279 | 0.54658527 | 0.03054 | 3.99476097 | 608.2 | 85.0 | 87.7 | 607.6 | 14.9 | 17.3 | 100.0 |
| 1.sSMPABC323 | 0.05998 | 2.26742247 | 0.80633746 | 2.77491527 | 0.09750101 | 1.59967186 | 0.57647593 | 0.02295 | 8.10457516 | 602.9 | 49.1 | 53.7 | 599.7 | 9.2 | 12.6 | 99.9 |
| 1.sSMPABC324 | 0.06013 | 2.16198237 | 0.81266431 | 2.70879109 | 0.09802091 | 1.63198694 | 0.60247797 | 0.03157 | 5.06810263 | 608.3 | 46.7 | 51.5 | 602.8 | 9.4 | 12.8 | 99.8 |
| 1.sSMPABC343 | 0.06004 | 2.16522318 | 0.81128241 | 2.71157884 | 0.09800091 | 1.63231993 | 0.60198137 | 0.02933 | 4.63689056 | 605.0 | 46.8 | 51.6 | 602.7 | 9.4 | 12.8 | 99.9 |
| 1.sSMPABC344 | 0.0598 | 2.17391304 | 0.80993548 | 2.72848321 | 0.09823086 | 1.64885496 | 0.60431193 | 0.02845 | 5.48330404 | 596.3 | 47.1 | 51.9 | 604.0 | 9.5 | 12.9 | 100.3 |
| 1.sSMPABC363 | 0.05926834 | 2.53726471 | 0.8054309 | 3.06973934 | 0.0985608 | 1.72788524 | 0.56287686 | 0.02744 | 8.3819242 | 577.0 | 55.1 | 66.2 | 606.0 | 10.0 | 12.9 | 101.0 |
| 1.sSMPABC364 | 0.06003206 | 2.28100048 | 0.81150614 | 2.84519962 | 0.0980409 | 1.70064626 | 0.59772476 | 0.02594 | 6.09097918 | 604.7 | 49.3 | 61.1 | 602.9 | 9.8 | 12.8 | 99.9 |
| 1.sSMPABC163 | 0.05994 | 2.0687354 | 0.80976592 | 2.57341019 | 0.09798091 | 1.53061224 | 0.59477974 | 0.02903 | 3.99586635 | 601.4 | 44.8 | 49.8 | 602.6 | 8.8 | 12.4 | 100.0 |
| ~~1.sSMPABC164~~ | ~~0.0751578~~ | ~~2.44402043~~ | ~~1.01473081~~ | ~~3.02642467~~ | ~~0.09792092~~ | ~~1.7849399~~ | ~~0.58978501~~ | ~~0.12159~~ | ~~3.48712888~~ | ~~1072.7~~ | ~~49.1~~ | ~~53.1~~ | ~~602.2~~ | ~~10.3~~ | ~~13.4~~ | ~~84.7~~ |
| 1.sSMPABC183 | 0.05983068 | 2.16032966 | 0.80804158 | 2.6739229 | 0.09795092 | 1.57570284 | 0.58928507 | 0.02909 | 3.78136817 | 597.5 | 46.8 | 51.6 | 602.4 | 9.1 | 12.5 | 100.2 |
| 1.sSMPABC184 | 0.05999869 | 3.9221033 | 0.81022795 | 4.67930711 | 0.09794092 | 2.55206207 | 0.54539315 | 0.0272 | 3.45588235 | 603.5 | 84.9 | 87.6 | 602.3 | 14.7 | 17.1 | 100.0 |
| 1.sSMPABC203 | 0.06019993 | 2.12836568 | 0.81319449 | 2.6443149 | 0.09797091 | 1.569223 | 0.59343273 | 0.03007 | 3.79115397 | 610.8 | 46.0 | 50.9 | 602.5 | 9.0 | 12.5 | 99.7 |
| 1.sSMPABC204 | 0.06035 | 2.05468103 | 0.81646958 | 2.56082187 | 0.09812089 | 1.52842878 | 0.59685088 | 0.02543 | 4.08965788 | 616.1 | 44.4 | 49.4 | 603.4 | 8.8 | 12.4 | 99.6 |
| 1.sSMPABC223 | 0.06002 | 2.06597801 | 0.81250148 | 2.56933957 | 0.09818087 | 1.52749491 | 0.59450877 | 0.02566 | 3.89711613 | 604.3 | 44.7 | 49.7 | 603.7 | 8.8 | 12.4 | 100.0 |
| 1.sSMPABC224 | 0.05912514 | 3.96233071 | 0.79908346 | 4.71861206 | 0.09802091 | 2.56227148 | 0.5430138 | 0.02686 | 4.09530901 | 571.7 | 86.2 | 88.9 | 602.8 | 14.8 | 17.1 | 101.1 |
| 1.sSMPABC243 | 0.06059 | 2.04654233 | 0.81696019 | 2.5573854 | 0.09779095 | 1.53358552 | 0.5996693 | 0.03133 | 3.63868497 | 624.7 | 44.1 | 49.2 | 601.5 | 8.8 | 12.3 | 99.2 |
| 1.sSMPABC244 | 0.05990555 | 2.07007376 | 0.80607981 | 2.57817172 | 0.09759099 | 1.5368032 | 0.59608256 | 0.02452 | 4.4045677 | 600.2 | 44.8 | 49.8 | 600.3 | 8.8 | 12.3 | 100.0 |
| 1.sSMPABC263 | 0.0600234 | 2.09860963 | 0.80865854 | 2.60985506 | 0.09771097 | 1.55150928 | 0.59448101 | 0.02838 | 3.38266385 | 604.4 | 45.4 | 50.3 | 601.0 | 8.9 | 12.4 | 99.9 |
| 1.sSMPABC264 | 0.06028339 | 2.06678073 | 0.81340782 | 2.57594254 | 0.09786094 | 1.53749712 | 0.59686779 | 0.02888 | 3.60110803 | 613.8 | 44.6 | 49.6 | 601.9 | 8.8 | 12.4 | 99.6 |
| 1.sSMPABC283 | 0.05975525 | 2.14966484 | 0.80677578 | 2.67554932 | 0.09792092 | 1.59295488 | 0.59537489 | 0.02674 | 4.03889304 | 594.7 | 46.6 | 51.4 | 602.2 | 9.2 | 12.6 | 100.3 |
| 1.sSMPABC284 | 0.06030825 | 2.05711733 | 0.81390951 | 2.57757557 | 0.09788093 | 1.55311432 | 0.60254851 | 0.02899 | 3.51845464 | 614.7 | 44.4 | 49.4 | 602.0 | 8.9 | 12.4 | 99.6 |
| 1.sSMPABC303 | 0.06009091 | 2.16412642 | 0.81172185 | 2.7089198 | 0.09797091 | 1.62935672 | 0.60147839 | 0.0273 | 4.90842491 | 606.8 | 46.8 | 51.6 | 602.5 | 9.4 | 12.8 | 99.9 |
| 1.sSMPABC304 | 0.06012921 | 3.93121845 | 0.81936768 | 4.69453337 | 0.09883075 | 2.56596279 | 0.54658527 | 0.03054 | 3.99476097 | 608.2 | 85.0 | 87.7 | 607.6 | 14.9 | 17.3 | 100.0 |
| 1.sSMPABC323 | 0.05998 | 2.26742247 | 0.80633746 | 2.77491527 | 0.09750101 | 1.59967186 | 0.57647593 | 0.02295 | 8.10457516 | 602.9 | 49.1 | 53.7 | 599.7 | 9.2 | 12.6 | 99.9 |
| 1.sSMPABC324 | 0.06013 | 2.16198237 | 0.81266431 | 2.70879109 | 0.09802091 | 1.63198694 | 0.60247797 | 0.03157 | 5.06810263 | 608.3 | 46.7 | 51.5 | 602.8 | 9.4 | 12.8 | 99.8 |
| 1.sSMPABC343 | 0.06004 | 2.16522318 | 0.81128241 | 2.71157884 | 0.09800091 | 1.63231993 | 0.60198137 | 0.02933 | 4.63689056 | 605.0 | 46.8 | 51.6 | 602.7 | 9.4 | 12.8 | 99.9 |
| 1.sSMPABC344 | 0.0598 | 2.17391304 | 0.80993548 | 2.72848321 | 0.09823086 | 1.64885496 | 0.60431193 | 0.02845 | 5.48330404 | 596.3 | 47.1 | 51.9 | 604.0 | 9.5 | 12.9 | 100.3 |
| 1.sSMPABC363 | 0.05926834 | 2.53726471 | 0.8054309 | 3.06973934 | 0.0985608 | 1.72788524 | 0.56287686 | 0.02744 | 8.3819242 | 577.0 | 55.1 | 66.2 | 606.0 | 10.0 | 12.9 | 101.0 |
| 1.sSMPABC364 | 0.06003206 | 2.28100048 | 0.81150614 | 2.84519962 | 0.0980409 | 1.70064626 | 0.59772476 | 0.02594 | 6.09097918 | 604.7 | 49.3 | 61.1 | 602.9 | 9.8 | 12.8 | 99.9 |
| 1.sSMPABC003 | 0.0606804 | 2.96827034 | 0.81378618 | 3.34335072 | 0.0972659 | 1.53862445 | 0.46020432 | 0.01467 | 21.9495569 | 627.9 | 64.0 | 67.5 | 598.4 | 8.8 | 12.3 | 99.0 |
| ~~1.sSMPABC004~~ | ~~0.0613527~~ | ~~4.32085665~~ | ~~0.82963237~~ | ~~5.00644109~~ | ~~0.09807329~~ | ~~2.52876456~~ | ~~0.50510223~~ | ~~0.0122~~ | ~~31.3114754~~ | ~~651.6~~ | ~~92.7~~ | ~~95.2~~ | ~~603.1~~ | ~~14.6~~ | ~~17.0~~ | ~~98.4~~ |
| ~~1.sSMPABC023~~ | ~~0.05271989~~ | ~~1.96835952~~ | ~~0.71057799~~ | ~~2.44450785~~ | ~~0.09775432~~ | ~~1.44954456~~ | ~~0.59298012~~ | ~~0.02577~~ | ~~3.88048118~~ | ~~316.8~~ | ~~44.8~~ | ~~50.2~~ | ~~601.2~~ | ~~8.4~~ | ~~12.0~~ | ~~110.4~~ |
| 1.sSMPABC024 | 0.05990131 | 2.5574281 | 0.80630156 | 3.00818076 | 0.09762474 | 1.58389172 | 0.52652811 | 0.03129 | 7.98977309 | 600.0 | 55.4 | 59.5 | 600.5 | 9.1 | 12.6 | 100.1 |
| ~~1.sSMPABC043~~ | ~~0.05779~~ | ~~2.11109188~~ | ~~0.77287852~~ | ~~2.57808788~~ | ~~0.09699677~~ | ~~1.4798068~~ | ~~0.57399393~~ | ~~0.02575~~ | ~~5.12621359~~ | ~~521.8~~ | ~~46.3~~ | ~~51.3~~ | ~~596.8~~ | ~~8.5~~ | ~~12.1~~ | ~~102.7~~ |
| 1.sSMPABC044 | 0.05925186 | 4.06300396 | 0.79755956 | 4.78542048 | 0.09762474 | 2.52828954 | 0.52833174 | 0.02871 | 6.06060606 | 576.4 | 88.3 | 91.0 | 600.5 | 14.6 | 16.9 | 100.9 |
| 1.sSMPABC063 | 0.05983 | 2.10596691 | 0.80435494 | 2.56946498 | 0.09750513 | 1.4720916 | 0.57291756 | 0.02672 | 4.11676647 | 597.4 | 45.6 | 50.5 | 599.8 | 8.5 | 12.1 | 100.1 |
| 1.sSMPABC064 | 0.06023128 | 3.90695765 | 0.81090865 | 4.63412718 | 0.09764468 | 2.492151 | 0.53778218 | 0.02754 | 3.26797386 | 611.9 | 84.4 | 87.2 | 600.6 | 14.3 | 16.8 | 99.7 |
| 1.sSMPABC083 | 0.05884199 | 2.25467694 | 0.7907486 | 2.72908475 | 0.09746526 | 1.53763956 | 0.56342683 | 0.02607 | 5.37015727 | 561.3 | 49.1 | 53.8 | 599.5 | 8.8 | 12.4 | 101.4 |
| 1.sSMPABC084 | 0.0601 | 2.09650582 | 0.81343636 | 2.56773154 | 0.098163 | 1.48253452 | 0.57737131 | 0.02762 | 3.98262129 | 607.2 | 45.3 | 50.3 | 603.6 | 8.6 | 12.2 | 99.9 |
| 1.sSMPABC103 | 0.05979 | 2.20772704 | 0.80891191 | 2.68252423 | 0.09812313 | 1.52377082 | 0.56803618 | 0.02738 | 5.62454346 | 596.0 | 47.8 | 52.5 | 603.4 | 8.8 | 12.4 | 100.3 |
| 1.sSMPABC104 | 0.06014 | 2.06185567 | 0.81711861 | 2.53619659 | 0.09854178 | 1.47683593 | 0.58230341 | 0.02838 | 3.59408034 | 608.6 | 44.6 | 49.6 | 605.9 | 8.6 | 12.2 | 100.0 |
| 1.sSMPABC123 | 0.06060165 | 3.95423296 | 0.81839374 | 4.71542304 | 0.09794371 | 2.56890173 | 0.54478712 | 0.02912 | 5.08241758 | 625.1 | 85.3 | 88.0 | 602.3 | 14.8 | 17.2 | 99.3 |
| 1.sSMPABC124 | 0.0598 | 2.27424749 | 0.82071773 | 2.78197497 | 0.09953856 | 1.60224314 | 0.5759373 | 0.03013 | 6.23962828 | 596.3 | 49.3 | 53.9 | 611.7 | 9.4 | 12.9 | 100.6 |
| 1.sSMPABC143 | 0.06087 | 2.36569739 | 0.82879388 | 2.87583509 | 0.0987511 | 1.63520743 | 0.56860264 | 0.04511 | 6.42872977 | 634.6 | 50.9 | 55.3 | 607.1 | 9.5 | 12.9 | 99.1 |
| ~~1.sSMPABC144~~ | ~~0.06347503~~ | ~~3.10082359~~ | ~~0.86897432~~ | ~~3.60754387~~ | ~~0.09928937~~ | ~~1.84370981~~ | ~~0.51107065~~ | ~~0.04801~~ | ~~10.5811289~~ | ~~724.2~~ | ~~65.8~~ | ~~69.1~~ | ~~610.2~~ | ~~10.8~~ | ~~13.9~~ | ~~96.2~~ |
| 1.sSMPABC163 | 0.06021 | 2.22554393 | 0.81103592 | 2.72432187 | 0.09769452 | 1.57126824 | 0.57675573 | 0.02856 | 5.32212885 | 611.1 | 48.1 | 52.8 | 600.9 | 9.0 | 12.5 | 99.7 |
| ~~1.sSMPABC164~~ | ~~0.05939557~~ | ~~2.91164291~~ | ~~0.83377908~~ | ~~3.3116693~~ | ~~0.10181122~~ | ~~1.57781148~~ | ~~0.47643993~~ | ~~0.03509~~ | ~~8.3784554~~ | ~~581.6~~ | ~~63.2~~ | ~~66.9~~ | ~~625.0~~ | ~~9.4~~ | ~~13.0~~ | ~~101.6~~ |
| 1.sSMPABC003 | 0.0606804 | 2.96827034 | 0.81378618 | 3.34335072 | 0.0972659 | 1.53862445 | 0.46020432 | 0.01467 | 21.9495569 | 627.9 | 64.0 | 67.5 | 598.4 | 8.8 | 12.3 | 99.0 |
| ~~1.sSMPABC004~~ | ~~0.0613527~~ | ~~4.32085665~~ | ~~0.82963237~~ | ~~5.00644109~~ | ~~0.09807329~~ | ~~2.52876456~~ | ~~0.50510223~~ | ~~0.0122~~ | ~~31.3114754~~ | ~~651.6~~ | ~~92.7~~ | ~~95.2~~ | ~~603.1~~ | ~~14.6~~ | ~~17.0~~ | ~~98.4~~ |
| ~~1.sSMPABC023~~ | ~~0.05271989~~ | ~~1.96835952~~ | ~~0.71057799~~ | ~~2.44450785~~ | ~~0.09775432~~ | ~~1.44954456~~ | ~~0.59298012~~ | ~~0.02577~~ | ~~3.88048118~~ | ~~316.8~~ | ~~44.8~~ | ~~50.2~~ | ~~601.2~~ | ~~8.4~~ | ~~12.0~~ | ~~110.4~~ |
| 1.sSMPABC024 | 0.05990131 | 2.5574281 | 0.80630156 | 3.00818076 | 0.09762474 | 1.58389172 | 0.52652811 | 0.03129 | 7.98977309 | 600.0 | 55.4 | 59.5 | 600.5 | 9.1 | 12.6 | 100.1 |
| ~~1.sSMPABC043~~ | ~~0.05779~~ | ~~2.11109188~~ | ~~0.77287852~~ | ~~2.57808788~~ | ~~0.09699677~~ | ~~1.4798068~~ | ~~0.57399393~~ | ~~0.02575~~ | ~~5.12621359~~ | ~~521.8~~ | ~~46.3~~ | ~~51.3~~ | ~~596.8~~ | ~~8.5~~ | ~~12.1~~ | ~~102.7~~ |
| 1.sSMPABC044 | 0.05925186 | 4.06300396 | 0.79755956 | 4.78542048 | 0.09762474 | 2.52828954 | 0.52833174 | 0.02871 | 6.06060606 | 576.4 | 88.3 | 91.0 | 600.5 | 14.6 | 16.9 | 100.9 |
| 1.sSMPABC063 | 0.05983 | 2.10596691 | 0.80435494 | 2.56946498 | 0.09750513 | 1.4720916 | 0.57291756 | 0.02672 | 4.11676647 | 597.4 | 45.6 | 50.5 | 599.8 | 8.5 | 12.1 | 100.1 |
| 1.sSMPABC064 | 0.06023128 | 3.90695765 | 0.81090865 | 4.63412718 | 0.09764468 | 2.492151 | 0.53778218 | 0.02754 | 3.26797386 | 611.9 | 84.4 | 87.2 | 600.6 | 14.3 | 16.8 | 99.7 |
| 1.sSMPABC083 | 0.05884199 | 2.25467694 | 0.7907486 | 2.72908475 | 0.09746526 | 1.53763956 | 0.56342683 | 0.02607 | 5.37015727 | 561.3 | 49.1 | 53.8 | 599.5 | 8.8 | 12.4 | 101.4 |
| 1.sSMPABC084 | 0.0601 | 2.09650582 | 0.81343636 | 2.56773154 | 0.098163 | 1.48253452 | 0.57737131 | 0.02762 | 3.98262129 | 607.2 | 45.3 | 50.3 | 603.6 | 8.6 | 12.2 | 99.9 |
| 1.sSMPABC103 | 0.05979 | 2.20772704 | 0.80891191 | 2.68252423 | 0.09812313 | 1.52377082 | 0.56803618 | 0.02738 | 5.62454346 | 596.0 | 47.8 | 52.5 | 603.4 | 8.8 | 12.4 | 100.3 |
| 1.sSMPABC104 | 0.06014 | 2.06185567 | 0.81711861 | 2.53619659 | 0.09854178 | 1.47683593 | 0.58230341 | 0.02838 | 3.59408034 | 608.6 | 44.6 | 49.6 | 605.9 | 8.6 | 12.2 | 100.0 |
| 1.sSMPABC123 | 0.06060165 | 3.95423296 | 0.81839374 | 4.71542304 | 0.09794371 | 2.56890173 | 0.54478712 | 0.02912 | 5.08241758 | 625.1 | 85.3 | 88.0 | 602.3 | 14.8 | 17.2 | 99.3 |
| 1.sSMPABC124 | 0.0598 | 2.27424749 | 0.82071773 | 2.78197497 | 0.09953856 | 1.60224314 | 0.5759373 | 0.03013 | 6.23962828 | 596.3 | 49.3 | 53.9 | 611.7 | 9.4 | 12.9 | 100.6 |
| 1.sSMPABC143 | 0.06087 | 2.36569739 | 0.82879388 | 2.87583509 | 0.0987511 | 1.63520743 | 0.56860264 | 0.04511 | 6.42872977 | 634.6 | 50.9 | 55.3 | 607.1 | 9.5 | 12.9 | 99.1 |
| ~~1.sSMPABC144~~ | ~~0.06347503~~ | ~~3.10082359~~ | ~~0.86897432~~ | ~~3.60754387~~ | ~~0.09928937~~ | ~~1.84370981~~ | ~~0.51107065~~ | ~~0.04801~~ | ~~10.5811289~~ | ~~724.2~~ | ~~65.8~~ | ~~69.1~~ | ~~610.2~~ | ~~10.8~~ | ~~13.9~~ | ~~96.2~~ |
| 1.sSMPABC163 | 0.06021 | 2.22554393 | 0.81103592 | 2.72432187 | 0.09769452 | 1.57126824 | 0.57675573 | 0.02856 | 5.32212885 | 611.1 | 48.1 | 52.8 | 600.9 | 9.0 | 12.5 | 99.7 |
| ~~1.sSMPABC164~~ | ~~0.05939557~~ | ~~2.91164291~~ | ~~0.83377908~~ | ~~3.3116693~~ | ~~0.10181122~~ | ~~1.57781148~~ | ~~0.47643993~~ | ~~0.03509~~ | ~~8.3784554~~ | ~~581.6~~ | ~~63.2~~ | ~~66.9~~ | ~~625.0~~ | ~~9.4~~ | ~~13.0~~ | ~~101.6~~ |
| TERCIARY REF. MAT. | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.sSMPABC165 | 0.05354314 | 4.24512192 | 0.40116659 | 5.81760211 | 0.05434 | 3.97786805 | 0.6837642 | 0.01723 | 1.50899594 | 351.9 | 95.9 | 98.6 | 341.1 | 13.2 | 14.1 | 99.6 |
| 1.sSMPABC166 | 0.05327 | 2.06495213 | 0.39743079 | 2.58339935 | 0.05411 | 1.55239327 | 0.60091107 | 0.01657 | 2.17260109 | 340.3 | 46.8 | 52.0 | 339.7 | 5.1 | 7.2 | 100.0 |
| 1.sSMPABC185 | 0.05349 | 2.05645915 | 0.39899838 | 2.51152104 | 0.0541 | 1.44177449 | 0.57406427 | 0.01628 | 1.96560197 | 349.6 | 46.5 | 51.7 | 339.6 | 4.8 | 6.9 | 99.6 |
| 1.sSMPABC186 | 0.05235822 | 4.32317435 | 0.38752403 | 5.90802535 | 0.05368 | 4.02677627 | 0.68157735 | 0.0164 | 1.82926829 | 301.1 | 98.6 | 101.2 | 337.1 | 13.2 | 14.1 | 101.4 |
| 1.sSMPABC205 | 0.05235747 | 4.32323584 | 0.38852919 | 5.91063988 | 0.05382 | 4.03054533 | 0.68191353 | 0.01605 | 1.74454829 | 301.1 | 98.6 | 101.2 | 337.9 | 13.3 | 14.2 | 101.4 |
| 1.sSMPABC206 | 0.05327592 | 4.30259605 | 0.39989906 | 5.83624395 | 0.05444 | 3.94327411 | 0.67565272 | 0.01676 | 2.14797136 | 340.6 | 97.4 | 100.0 | 341.7 | 13.1 | 14.1 | 100.0 |
| 1.sSMPABC225 | 0.05337688 | 2.23321469 | 0.39660909 | 2.7385978 | 0.05389 | 1.58514039 | 0.5788146 | 0.01721 | 2.67286461 | 344.9 | 50.5 | 55.4 | 338.4 | 5.2 | 7.2 | 99.8 |
| 1.sSMPABC226 | 0.05317062 | 2.11664448 | 0.39405012 | 2.57454531 | 0.05375 | 1.46563969 | 0.56928098 | 0.0162 | 2.34567901 | 336.1 | 48.0 | 53.1 | 337.5 | 4.8 | 6.9 | 100.1 |
| 1.sSMPABC245 | 0.05352701 | 4.28241305 | 0.39809363 | 5.84620225 | 0.05394 | 3.97982652 | 0.68075416 | 0.01687 | 2.25251926 | 351.2 | 96.8 | 99.4 | 338.7 | 13.1 | 14.1 | 99.5 |
| 1.sSMPABC246 | 0.05342836 | 2.06044562 | 0.39522358 | 2.52304593 | 0.05365 | 1.45613345 | 0.57713315 | 0.01686 | 1.89798339 | 347.0 | 46.6 | 51.8 | 336.9 | 4.8 | 6.9 | 99.6 |
| 1.sSMPABC265 | 0.05314411 | 4.2950057 | 0.39246141 | 5.87466095 | 0.05356 | 4.00806278 | 0.68226283 | 0.01748 | 2.05949657 | 335.0 | 97.3 | 100.0 | 336.3 | 13.1 | 14.0 | 100.1 |
| 1.sSMPABC266 | 0.05345647 | 4.25200501 | 0.39580002 | 5.85511723 | 0.0537 | 4.02527654 | 0.68748009 | 0.01655 | 1.57099698 | 348.2 | 96.1 | 98.8 | 337.2 | 13.2 | 14.1 | 99.6 |
| 1.sSMPABC285 | 0.05280382 | 2.03452805 | 0.3917686 | 2.60750228 | 0.05381 | 1.63087821 | 0.6254561 | 0.01764 | 2.15419501 | 320.4 | 46.2 | 51.6 | 337.9 | 5.4 | 7.3 | 100.7 |
| 1.sSMPABC286 | 0.053274 | 2.2081345 | 0.39356754 | 2.7488223 | 0.05358 | 1.63712127 | 0.59557188 | 0.01504 | 2.39361702 | 340.5 | 50.0 | 54.9 | 336.5 | 5.4 | 7.3 | 99.8 |
| 1.sSMPABC305 | 0.05319829 | 2.099715 | 0.3946953 | 2.61940341 | 0.05381 | 1.56603676 | 0.59786009 | 0.01589 | 2.01384519 | 337.3 | 47.6 | 52.7 | 337.9 | 5.2 | 7.1 | 100.0 |
| 1.sSMPABC306 | 0.05287569 | 4.35377019 | 0.39295795 | 5.90987492 | 0.0539 | 3.99641173 | 0.67622611 | 0.01649 | 2.78956944 | 323.5 | 98.9 | 101.5 | 338.4 | 13.2 | 14.1 | 100.6 |
| 1.sSMPABC325 | 0.05298458 | 4.3636379 | 0.39464389 | 5.91115589 | 0.05402 | 3.9875341 | 0.67457773 | 0.01756 | 2.84738041 | 328.1 | 99.0 | 101.6 | 339.2 | 13.2 | 14.1 | 100.4 |
| 1.sSMPABC326 | 0.05331307 | 4.3367518 | 0.39686999 | 5.94211462 | 0.05399 | 4.06218044 | 0.68362539 | 0.01635 | 2.6911315 | 342.1 | 98.2 | 100.8 | 339.0 | 13.4 | 14.3 | 99.9 |
| ~~1.sSMPABC345~~ | ~~0.05612501~~ | ~~2.28260782~~ | ~~0.41834418~~ | ~~2.84889912~~ | ~~0.05406~~ | ~~1.70467819~~ | ~~0.59836383~~ | ~~0.01899~~ | ~~3.37019484~~ | ~~457.3~~ | ~~50.6~~ | ~~64.2~~ | ~~339.4~~ | ~~5.6~~ | ~~7.5~~ | ~~95.6~~ |
| ~~1.sSMPABC346~~ | ~~0.05020308~~ | ~~1.87320041~~ | ~~0.37122688~~ | ~~2.4422898~~ | ~~0.05363~~ | ~~1.56713103~~ | ~~0.64166465~~ | ~~0.01748~~ | ~~2.63157895~~ | ~~204.4~~ | ~~43.5~~ | ~~63.4~~ | ~~336.8~~ | ~~5.1~~ | ~~7.1~~ | ~~105.1~~ |
| 1.sSMPABC365 | 0.05331522 | 4.31787812 | 0.39468066 | 5.93353219 | 0.05369 | 4.06973374 | 0.68588719 | 0.01554 | 2.44530245 | 342.2 | 97.7 | 106.6 | 337.1 | 13.4 | 19.7 | 99.8 |
| 1.sSMPABC366 | 0.0532798 | 2.40251954 | 0.39463889 | 2.89718603 | 0.05372 | 1.61913148 | 0.55886349 | 0.01452 | 3.99449036 | 340.7 | 54.4 | 69.0 | 337.3 | 5.3 | 15.9 | 99.9 |
| 1.sSMPABC165 | 0.05354314 | 4.24512192 | 0.40116659 | 5.81760211 | 0.05434 | 3.97786805 | 0.6837642 | 0.01723 | 1.50899594 | 351.9 | 95.9 | 98.6 | 341.1 | 13.2 | 14.1 | 99.6 |
| 1.sSMPABC166 | 0.05327 | 2.06495213 | 0.39743079 | 2.58339935 | 0.05411 | 1.55239327 | 0.60091107 | 0.01657 | 2.17260109 | 340.3 | 46.8 | 52.0 | 339.7 | 5.1 | 7.2 | 100.0 |
| 1.sSMPABC185 | 0.05349 | 2.05645915 | 0.39899838 | 2.51152104 | 0.0541 | 1.44177449 | 0.57406427 | 0.01628 | 1.96560197 | 349.6 | 46.5 | 51.7 | 339.6 | 4.8 | 6.9 | 99.6 |
| 1.sSMPABC186 | 0.05235822 | 4.32317435 | 0.38752403 | 5.90802535 | 0.05368 | 4.02677627 | 0.68157735 | 0.0164 | 1.82926829 | 301.1 | 98.6 | 101.2 | 337.1 | 13.2 | 14.1 | 101.4 |
| 1.sSMPABC205 | 0.05235747 | 4.32323584 | 0.38852919 | 5.91063988 | 0.05382 | 4.03054533 | 0.68191353 | 0.01605 | 1.74454829 | 301.1 | 98.6 | 101.2 | 337.9 | 13.3 | 14.2 | 101.4 |
| 1.sSMPABC206 | 0.05327592 | 4.30259605 | 0.39989906 | 5.83624395 | 0.05444 | 3.94327411 | 0.67565272 | 0.01676 | 2.14797136 | 340.6 | 97.4 | 100.0 | 341.7 | 13.1 | 14.1 | 100.0 |
| 1.sSMPABC225 | 0.05337688 | 2.23321469 | 0.39660909 | 2.7385978 | 0.05389 | 1.58514039 | 0.5788146 | 0.01721 | 2.67286461 | 344.9 | 50.5 | 55.4 | 338.4 | 5.2 | 7.2 | 99.8 |
| 1.sSMPABC226 | 0.05317062 | 2.11664448 | 0.39405012 | 2.57454531 | 0.05375 | 1.46563969 | 0.56928098 | 0.0162 | 2.34567901 | 336.1 | 48.0 | 53.1 | 337.5 | 4.8 | 6.9 | 100.1 |
| 1.sSMPABC245 | 0.05352701 | 4.28241305 | 0.39809363 | 5.84620225 | 0.05394 | 3.97982652 | 0.68075416 | 0.01687 | 2.25251926 | 351.2 | 96.8 | 99.4 | 338.7 | 13.1 | 14.1 | 99.5 |
| 1.sSMPABC246 | 0.05342836 | 2.06044562 | 0.39522358 | 2.52304593 | 0.05365 | 1.45613345 | 0.57713315 | 0.01686 | 1.89798339 | 347.0 | 46.6 | 51.8 | 336.9 | 4.8 | 6.9 | 99.6 |
| 1.sSMPABC265 | 0.05314411 | 4.2950057 | 0.39246141 | 5.87466095 | 0.05356 | 4.00806278 | 0.68226283 | 0.01748 | 2.05949657 | 335.0 | 97.3 | 100.0 | 336.3 | 13.1 | 14.0 | 100.1 |
| 1.sSMPABC266 | 0.05345647 | 4.25200501 | 0.39580002 | 5.85511723 | 0.0537 | 4.02527654 | 0.68748009 | 0.01655 | 1.57099698 | 348.2 | 96.1 | 98.8 | 337.2 | 13.2 | 14.1 | 99.6 |
| 1.sSMPABC285 | 0.05280382 | 2.03452805 | 0.3917686 | 2.60750228 | 0.05381 | 1.63087821 | 0.6254561 | 0.01764 | 2.15419501 | 320.4 | 46.2 | 51.6 | 337.9 | 5.4 | 7.3 | 100.7 |
| 1.sSMPABC286 | 0.053274 | 2.2081345 | 0.39356754 | 2.7488223 | 0.05358 | 1.63712127 | 0.59557188 | 0.01504 | 2.39361702 | 340.5 | 50.0 | 54.9 | 336.5 | 5.4 | 7.3 | 99.8 |
| 1.sSMPABC305 | 0.05319829 | 2.099715 | 0.3946953 | 2.61940341 | 0.05381 | 1.56603676 | 0.59786009 | 0.01589 | 2.01384519 | 337.3 | 47.6 | 52.7 | 337.9 | 5.2 | 7.1 | 100.0 |
| 1.sSMPABC306 | 0.05287569 | 4.35377019 | 0.39295795 | 5.90987492 | 0.0539 | 3.99641173 | 0.67622611 | 0.01649 | 2.78956944 | 323.5 | 98.9 | 101.5 | 338.4 | 13.2 | 14.1 | 100.6 |
| 1.sSMPABC325 | 0.05298458 | 4.3636379 | 0.39464389 | 5.91115589 | 0.05402 | 3.9875341 | 0.67457773 | 0.01756 | 2.84738041 | 328.1 | 99.0 | 101.6 | 339.2 | 13.2 | 14.1 | 100.4 |
| 1.sSMPABC326 | 0.05331307 | 4.3367518 | 0.39686999 | 5.94211462 | 0.05399 | 4.06218044 | 0.68362539 | 0.01635 | 2.6911315 | 342.1 | 98.2 | 100.8 | 339.0 | 13.4 | 14.3 | 99.9 |
| ~~1.sSMPABC345~~ | ~~0.05612501~~ | ~~2.28260782~~ | ~~0.41834418~~ | ~~2.84889912~~ | ~~0.05406~~ | ~~1.70467819~~ | ~~0.59836383~~ | ~~0.01899~~ | ~~3.37019484~~ | ~~457.3~~ | ~~50.6~~ | ~~64.2~~ | ~~339.4~~ | ~~5.6~~ | ~~7.5~~ | ~~95.6~~ |
| ~~1.sSMPABC346~~ | ~~0.05020308~~ | ~~1.87320041~~ | ~~0.37122688~~ | ~~2.4422898~~ | ~~0.05363~~ | ~~1.56713103~~ | ~~0.64166465~~ | ~~0.01748~~ | ~~2.63157895~~ | ~~204.4~~ | ~~43.5~~ | ~~63.4~~ | ~~336.8~~ | ~~5.1~~ | ~~7.1~~ | ~~105.1~~ |
| 1.sSMPABC365 | 0.05331522 | 4.31787812 | 0.39468066 | 5.93353219 | 0.05369 | 4.06973374 | 0.68588719 | 0.01554 | 2.44530245 | 342.2 | 97.7 | 106.6 | 337.1 | 13.4 | 19.7 | 99.8 |
| 1.sSMPABC366 | 0.0532798 | 2.40251954 | 0.39463889 | 2.89718603 | 0.05372 | 1.61913148 | 0.55886349 | 0.01452 | 3.99449036 | 340.7 | 54.4 | 69.0 | 337.3 | 5.3 | 15.9 | 99.9 |
| ~~1.sSMPABC005~~ | ~~0.05594~~ | ~~2.18090812~~ | ~~0.41480553~~ | ~~2.59872946~~ | ~~0.05378~~ | ~~1.41316475~~ | ~~0.54379064~~ | ~~0.01926~~ | ~~3.1152648~~ | ~~450.0~~ | ~~48.4~~ | ~~53.3~~ | ~~337.7~~ | ~~4.7~~ | ~~6.8~~ | ~~95.8~~ |
| ~~1.sSMPABC006~~ | ~~0.06827~~ | ~~2.25574923~~ | ~~0.50604651~~ | ~~2.66212798~~ | ~~0.05376~~ | ~~1.41369048~~ | ~~0.53103776~~ | ~~0.03637~~ | ~~2.91448996~~ | ~~876.8~~ | ~~46.7~~ | ~~51.1~~ | ~~337.6~~ | ~~4.7~~ | ~~6.8~~ | ~~81.2~~ |
| 1.sSMPABC025 | 0.05353 | 2.16700915 | 0.39900153 | 2.6034054 | 0.05406 | 1.44284129 | 0.55421307 | 0.01683 | 2.97088532 | 351.3 | 49.0 | 54.0 | 339.4 | 4.8 | 6.9 | 99.6 |
| ~~1.sSMPABC026~~ | ~~0.05430599~~ | ~~4.22098539~~ | ~~0.40328804~~ | ~~5.80541335~~ | ~~0.05386~~ | ~~3.98573789~~ | ~~0.6865554~~ | ~~0.01922~~ | ~~3.12174818~~ | ~~383.8~~ | ~~94.8~~ | ~~97.5~~ | ~~338.2~~ | ~~13.1~~ | ~~14.0~~ | ~~98.3~~ |
| 1.sSMPABC045 | 0.05339 | 2.21015171 | 0.39685379 | 2.5823418 | 0.05391 | 1.33555927 | 0.51718919 | 0.0176 | 3.06818182 | 345.4 | 50.0 | 54.9 | 338.5 | 4.4 | 6.6 | 99.7 |
| 1.sSMPABC046 | 0.05324105 | 2.10743518 | 0.3964073 | 2.50788085 | 0.054 | 1.35947906 | 0.5420828 | 0.01674 | 2.03106332 | 339.1 | 47.7 | 52.9 | 339.0 | 4.5 | 6.7 | 100.0 |
| 1.sSMPABC065 | 0.05325201 | 4.28630274 | 0.39516729 | 5.82008281 | 0.05382 | 3.93712748 | 0.67647276 | 0.01626 | 1.84501845 | 339.5 | 97.1 | 99.7 | 337.9 | 13.0 | 13.9 | 99.9 |
| 1.sSMPABC066 | 0.05337 | 2.13603148 | 0.39508622 | 2.50249381 | 0.05369 | 1.30378096 | 0.52099268 | 0.01626 | 2.70602706 | 344.6 | 48.3 | 53.4 | 337.1 | 4.3 | 6.5 | 99.7 |
| 1.sSMPABC085 | 0.05309005 | 2.07315353 | 0.3911106 | 2.53654475 | 0.05343 | 1.46153814 | 0.57619253 | 0.0172 | 1.86046512 | 332.6 | 47.0 | 52.2 | 335.5 | 4.8 | 6.9 | 100.1 |
| 1.sSMPABC086 | 0.05329 | 2.02664665 | 0.39456747 | 2.4507657 | 0.0537 | 1.37802607 | 0.56228389 | 0.01627 | 1.47510756 | 341.2 | 45.9 | 51.2 | 337.2 | 4.5 | 6.7 | 99.9 |
| 1.sSMPABC105 | 0.05310631 | 2.14679728 | 0.39943134 | 2.62088204 | 0.05455 | 1.50342412 | 0.57363288 | 0.01809 | 2.43228303 | 333.3 | 48.7 | 53.7 | 342.4 | 5.0 | 7.1 | 100.3 |
| 1.sSMPABC106 | 0.05318 | 2.10605491 | 0.39485288 | 2.57730458 | 0.05385 | 1.48560817 | 0.57641933 | 0.01691 | 2.24719101 | 336.5 | 47.7 | 52.9 | 338.1 | 4.9 | 7.0 | 100.1 |
| 1.sSMPABC125 | 0.05366268 | 4.28991987 | 0.39717888 | 5.84681437 | 0.05368 | 3.97263461 | 0.67945284 | 0.0176 | 2.27272727 | 356.9 | 96.9 | 99.5 | 337.1 | 13.1 | 14.0 | 99.3 |
| 1.sSMPABC126 | 0.05332544 | 4.29860043 | 0.4018148 | 5.8230666 | 0.05465 | 3.92812155 | 0.67457953 | 0.01634 | 2.3255814 | 342.7 | 97.3 | 99.9 | 343.0 | 13.1 | 14.1 | 100.0 |
| 1.sSMPABC145 | 0.05311041 | 2.39828208 | 0.39345745 | 2.92485482 | 0.05373 | 1.67422185 | 0.57241195 | 0.01777 | 4.16432189 | 333.5 | 54.4 | 58.9 | 337.4 | 5.5 | 7.4 | 100.1 |
| 1.sSMPABC146 | 0.05343 | 2.32079356 | 0.40127659 | 2.82774528 | 0.05447 | 1.6155682 | 0.57132734 | 0.01932 | 3.93374741 | 347.1 | 52.5 | 57.2 | 341.9 | 5.4 | 7.4 | 99.8 |
| 1.sSMPABC165 | 0.05341 | 2.28421644 | 0.39994812 | 2.77941067 | 0.05431 | 1.58350212 | 0.56972585 | 0.01768 | 3.50678733 | 346.3 | 51.7 | 56.4 | 340.9 | 5.3 | 7.3 | 99.8 |
| 1.sSMPABC166 | 0.05334765 | 4.45105195 | 0.39506786 | 5.98220917 | 0.05371 | 3.99686916 | 0.66812595 | 0.0164 | 4.14634146 | 343.6 | 100.7 | 103.3 | 337.3 | 13.1 | 14.0 | 99.8 |
| ~~1.sSMPABC005~~ | ~~0.05594~~ | ~~2.18090812~~ | ~~0.41480553~~ | ~~2.59872946~~ | ~~0.05378~~ | ~~1.41316475~~ | ~~0.54379064~~ | ~~0.01926~~ | ~~3.1152648~~ | ~~450.0~~ | ~~48.4~~ | ~~53.3~~ | ~~337.7~~ | ~~4.7~~ | ~~6.8~~ | ~~95.8~~ |
| ~~1.sSMPABC006~~ | ~~0.06827~~ | ~~2.25574923~~ | ~~0.50604651~~ | ~~2.66212798~~ | ~~0.05376~~ | ~~1.41369048~~ | ~~0.53103776~~ | ~~0.03637~~ | ~~2.91448996~~ | ~~876.8~~ | ~~46.7~~ | ~~51.1~~ | ~~337.6~~ | ~~4.7~~ | ~~6.8~~ | ~~81.2~~ |
| 1.sSMPABC025 | 0.05353 | 2.16700915 | 0.39900153 | 2.6034054 | 0.05406 | 1.44284129 | 0.55421307 | 0.01683 | 2.97088532 | 351.3 | 49.0 | 54.0 | 339.4 | 4.8 | 6.9 | 99.6 |
| ~~1.sSMPABC026~~ | ~~0.05430599~~ | ~~4.22098539~~ | ~~0.40328804~~ | ~~5.80541335~~ | ~~0.05386~~ | ~~3.98573789~~ | ~~0.6865554~~ | ~~0.01922~~ | ~~3.12174818~~ | ~~383.8~~ | ~~94.8~~ | ~~97.5~~ | ~~338.2~~ | ~~13.1~~ | ~~14.0~~ | ~~98.3~~ |
| 1.sSMPABC045 | 0.05339 | 2.21015171 | 0.39685379 | 2.5823418 | 0.05391 | 1.33555927 | 0.51718919 | 0.0176 | 3.06818182 | 345.4 | 50.0 | 54.9 | 338.5 | 4.4 | 6.6 | 99.7 |
| 1.sSMPABC046 | 0.05324105 | 2.10743518 | 0.3964073 | 2.50788085 | 0.054 | 1.35947906 | 0.5420828 | 0.01674 | 2.03106332 | 339.1 | 47.7 | 52.9 | 339.0 | 4.5 | 6.7 | 100.0 |
| 1.sSMPABC065 | 0.05325201 | 4.28630274 | 0.39516729 | 5.82008281 | 0.05382 | 3.93712748 | 0.67647276 | 0.01626 | 1.84501845 | 339.5 | 97.1 | 99.7 | 337.9 | 13.0 | 13.9 | 99.9 |
| 1.sSMPABC066 | 0.05337 | 2.13603148 | 0.39508622 | 2.50249381 | 0.05369 | 1.30378096 | 0.52099268 | 0.01626 | 2.70602706 | 344.6 | 48.3 | 53.4 | 337.1 | 4.3 | 6.5 | 99.7 |
| 1.sSMPABC085 | 0.05309005 | 2.07315353 | 0.3911106 | 2.53654475 | 0.05343 | 1.46153814 | 0.57619253 | 0.0172 | 1.86046512 | 332.6 | 47.0 | 52.2 | 335.5 | 4.8 | 6.9 | 100.1 |
| 1.sSMPABC086 | 0.05329 | 2.02664665 | 0.39456747 | 2.4507657 | 0.0537 | 1.37802607 | 0.56228389 | 0.01627 | 1.47510756 | 341.2 | 45.9 | 51.2 | 337.2 | 4.5 | 6.7 | 99.9 |
| 1.sSMPABC105 | 0.05310631 | 2.14679728 | 0.39943134 | 2.62088204 | 0.05455 | 1.50342412 | 0.57363288 | 0.01809 | 2.43228303 | 333.3 | 48.7 | 53.7 | 342.4 | 5.0 | 7.1 | 100.3 |
| 1.sSMPABC106 | 0.05318 | 2.10605491 | 0.39485288 | 2.57730458 | 0.05385 | 1.48560817 | 0.57641933 | 0.01691 | 2.24719101 | 336.5 | 47.7 | 52.9 | 338.1 | 4.9 | 7.0 | 100.1 |
| 1.sSMPABC125 | 0.05366268 | 4.28991987 | 0.39717888 | 5.84681437 | 0.05368 | 3.97263461 | 0.67945284 | 0.0176 | 2.27272727 | 356.9 | 96.9 | 99.5 | 337.1 | 13.1 | 14.0 | 99.3 |
| 1.sSMPABC126 | 0.05332544 | 4.29860043 | 0.4018148 | 5.8230666 | 0.05465 | 3.92812155 | 0.67457953 | 0.01634 | 2.3255814 | 342.7 | 97.3 | 99.9 | 343.0 | 13.1 | 14.1 | 100.0 |
| 1.sSMPABC145 | 0.05311041 | 2.39828208 | 0.39345745 | 2.92485482 | 0.05373 | 1.67422185 | 0.57241195 | 0.01777 | 4.16432189 | 333.5 | 54.4 | 58.9 | 337.4 | 5.5 | 7.4 | 100.1 |
| 1.sSMPABC146 | 0.05343 | 2.32079356 | 0.40127659 | 2.82774528 | 0.05447 | 1.6155682 | 0.57132734 | 0.01932 | 3.93374741 | 347.1 | 52.5 | 57.2 | 341.9 | 5.4 | 7.4 | 99.8 |
| 1.sSMPABC165 | 0.05341 | 2.28421644 | 0.39994812 | 2.77941067 | 0.05431 | 1.58350212 | 0.56972585 | 0.01768 | 3.50678733 | 346.3 | 51.7 | 56.4 | 340.9 | 5.3 | 7.3 | 99.8 |
| 1.sSMPABC166 | 0.05334765 | 4.45105195 | 0.39506786 | 5.98220917 | 0.05371 | 3.99686916 | 0.66812595 | 0.0164 | 4.14634146 | 343.6 | 100.7 | 103.3 | 337.3 | 13.1 | 14.0 | 99.8 |