**Tale S1.** *The most important polymorphisms that was associated with thyroid cancer risk*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Gene** | **Chromosome** | **Location (bp)** | **Gene position** | **Polymophism** | **Type** | **Amino acid change** | **Thyroid cancer histology** | **References\*** |
| *FOXE1* | 9q22 | 97851858 | Near 5‘gene | rs3758249 | A/G | - | PTC | Bullock et al., 2012 |
|  | 97852835 | Near 5‘gene | rs907577 | A/G | - | PTC | Bullock et al., 2012 |
|  | 97853378 | 5’UTR | rs7849497 | C/G | - | NMTC | Tomaz et al., 2012 |
|  | 97853632 | 5’UTR | rs1867277 | A/G | - | NMTC  NMTC  PTC  TC  NMTC  DTC | Landa et al., 2009  Kallel et al., 2010  Bullock et al., 2012  Jones et al., 2012  Tomaz et al., 2012  Pereda et al., 2015 |
|  | 97853667 | 5’UTR | rs1867278 | A/C | - | NMTC | Tomaz et al., 2012 |
|  | 97853759 | 5’UTR | rs1867279 | C/T | - | NMTC | Tomaz et al., 2012 |
|  | 97853784 | 5’UTR | rs1867280 | C/G | - | NMTC | Tomaz et al., 2012 |
|  | 97854301 | Exon | rs3021523 | C/T | Leu129Leu | NMTC | Tomaz et al., 2012 |
|  | 97854446 | Exon | rs71369530 | Polyalanine | - | PTC  NMTC  DTC | Bullock et al., 2012  Tomaz et al., 2012  Pereda et al., 2015 |
|  | 97854739 | Exon | rs3021526 | C/T | Ser275Ser | PTC  NMTC | Bullock et al., 2012  Tomaz et al., 2012 |
|  |  | 97855197 | 3’UTR | rs1443434 | G/T | - | PTC | Bullock et al., 2012 |
| *RET* | 10q11.2 | 43086608 | Intron | rs2435357 | A/G | - | MTC | Borun et al., 2012 |
|  |  | 43100520 | Exon | rs1800858 | A/G | Ala45Ala | TC | Huang and Yang., 2015 |
|  |  | 43114671 | Exon | rs1799939 | A/G | Gly691Ser | TC  DTC | Huang and Yang., 2015  Khan et al., 2015 |
|  |  | 43118395 | Exon | rs1800861 | A/C/T | Leu769Leu | MTC  MTC  DTC | Sromek et al., 2010  Ceolin et al., 2012  Khan et al., 2015 |
|  |  | 43119646 | Exon | rs1800862 | C/T | Ser836Ser | MTC  PTC | Ceolin et al., 2012  Santos et al., 2014 |
|  |  | 43120185 | Exon | rs1800863 | A/C/G | Ser904Ser | DTC | Khan et al., 2015 |
|  |  | 43121968 | Exon | rs74799832 | C/T | Met918Thr | TC | Huang and Yang, 2015 |
| *XRCC1* | 19q13.2 | 43553422 | Exon | rs1799782 | C/T | Arg194Trp | DTC  PTC  TC | Fard-Esfahani et al., 2011  Ryu et al., 2011  Wang et al., 2015 |
|  |  | 43552260 | Exon | rs25489 | A/C/G | Arg280His | DTC  DTC | Fard-Esfahani et al., 2011  Garcia-Qupes et al., 2011 |
|  |  | 43551574 | Exon | rs25487 | A/G | Arg399Gln | DTC  DTC | Akulevich et al., 2009  Fard-Esfahani et al., 2011 |
| DIRC3 | 2q35 | 217406996 |  | rs6759952 | C/T | - | DTC | Köhler et al., 2013 |
|  |  | 217445617 |  | rs966423 | C/T | - | TC  PTC | Gudmundsson et al., 2012  Liyanarachchi et al., 2013 |
| NRG1 | 8p12 | 32574851 |  | rs2439302 | C/G | - | TC  PTC | Gudmundsson et al., 2012  Liyanarachchi et al., 2013 |
| [CASC19](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=gene&cmd=Retrieve&dopt=Graphics&list_uids=101805488) | 8q24 | 127198984 |  | rs2466035 | C/T | - | PTC | Neta et al., 2012 |
| CCAT1 |  | 127213195 |  | rs7816475 | A/G | - | PTC | Neta et al., 2012 |
|  |  | 127216618 |  | rs10087719 | A/G | - | PTC | Neta et al., 2012 |
| [CASC](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=gene&cmd=Retrieve&dopt=Graphics&list_uids=101805488)21/CASC8 |  | 127324996 |  | rs377649 | A/C | - | PTC | Neta et al., 2012 |
|  |  | 127327181 |  | rs424281 | C/T | - | PTC | Neta et al., 2012 |
|  |  | 127338270 |  | rs13249993 | A/G | - | PTC | Neta et al., 2012 |
| [CASC8](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=gene&cmd=Retrieve&dopt=Graphics&list_uids=101805488)/CCAT2 |  | 127401060 |  | rs6983267 | G/T | - | NMTC  TC | Sahasrabudhe et al., 2015  Jones et al., 2012 |
| - |  | 127495357 |  | rs1562432 | A/G | - | PTC | Neta et al., 2012 |
| - |  | 127501300 |  | rs4871808 | C/T | - | PTC | Neta et al., 2012 |
| - |  | 127556611 |  | rs4733655 | A/G | - | PTC | Neta et al., 2012 |
| - |  | 127561053 |  | rs12543106 | A/G | - | PTC | Neta et al., 2012 |
| - |  | 127649850 |  | rs4733616 | C/T | - | PTC | Neta et al., 2012 |
| - |  | 127653235 |  | rs4385433 | C/T | - | PTC | Neta et al., 2012 |
| Near FOXE1 | 9q22 | 97793827 |  | rs965513 | G/A | - | TC  PTC  TC  DTC | Jones et al., 2012  Liyanarachchi et al., 2013  Guo et al., 2014  Pereda et al., 2015 |
| - | 14q13 | 36180040 |  | rs944289 | C/T | - | TC  PTC  PTC  TC  DTC | Jones et al., 2012  Liyanarachchi et al., 2013  Ai et al., 2014  Guo et al., 2014  Pereda et al., 2015 |
| - |  | 36269155 |  | rs116909374 | C/T | - | TC  PTC | Gudmundsson et al., 2013  Liyanarachchi et al., 2013 |
| Near BATF | 14q24 | 75513546 |  | rs10136427 | C/T | - | DTC | Figlioli et al., 2014 |
| Near DHX35 | 20q11 | 39318791 |  | rs7267944 | C/T | - | DTC | Figlioli et al., 2014 |

PTC: papillary thyroid cancer, DTC: differentiated thyroid cancer, NMTC: non medullary thyroid cancer, TC: thyroid cancer

\*Only the most recent references are mentioned in table

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