>RfAPN2a, Cluster-7879.9674

**MDYILGLVSLVALTICIDG**YRLDGSFTVERYDIQLNFSPEIFSTENGTSYSGTNLITFTPNNDTDIVVLHSSAKFLNVRSVYLSNSGVNSSITCTNIT**T**NATTELLTLQFNGTLLQSINYSILLEFDGNISTSDMYGIYKSSYTQSGTKYYFVTTQFESTFARRAFPCFDEPSFKAVFDLTLSYPNGLRVLFNTPALSTNISDLNVTTTQFQPSPKMSSYLVAFVISDLTCSQGVNIENSLVNQVCSRNDTASNRAWALEVTPPIIDSLNAYTAINYSVLMSKLDQVAITDFSAGAMENWGLVTYRERALLYDDIETSNSYKQYIASVIAHELAHQWFGNLVTCKWWSEIFLNEGFATLLEHFITHEILPDYEMDKQFVTKTLQYIFEEDASSSESLRS**S**AT**T**PNEISARFGGITYDKGGSVLRMVETFLGSSSWRAGLNTYLNNFSYKAAEPDDLWNSISSQISNDSSLPADLNIIMSNWINSPGYPVLNVVLNGTTVAVTQKRFVFNSSLASNVSWYVPLAYTTSSNTSVFTNTIPSLWLTPNQSTQFINLNENDTWIVVNNLQSGYYRVNYDSILWNRLSEALKEVNFSDIPEINRAQIVDDAFNLARAGLINYGQLFNITQFLANETSYHVWYSAFNGFNYLLKRFNKNSTLYSSISNHISDLSSVLVNSVPLSEVNASNHIYTLSQVQAQLWACKLDNPNCTASAVELFKNYT**T**TQTRPNKNLRSLVYCYGLKNSSNVTADWNFLWEAFLNTELSTEQVTLLATLGCSSDEGILKQYLRKTLDDNSGIRSQDYASVYAAVYQNSDIGVDVALDFFIENYSLIAERYTSLNAVGNILKRIAELITTEAQLNKLNNFINNGTLNGTVLDAAKTAEKSAINNLDWVATYQIQLLAYYNLP**T**E**SSTSSTSTTTT**I**STTS**V**S**P**TSSSTTS**A**TT**NVA**TST**VP**TTTSTS**KG**S**ILEPAGILLIV**S**FLQLVLIIKK

>RfAPN2b, Cluster-7879.8243

**MLLKWGLAVLLLGITAAA**SDYRLPTDIKPIAYSIDLELDEGVFKGTSDQYVGSETIVVNVINSVNTIKFHASYNFINITNLTVEDSTVVGINVNNDTNIVTVTLDSHLAEGLVLSIAINFIGRLSTEDMYGFYRSSYTEDGQTKYLATTQFQPVYARRAFPCFDEPAFKANFTLTITSPNGYAALSNMPVEHTSNDTDFVTTNFSSSPLMPSYLVAFVVSEFTCTQVDTIPDVPYSICSTDSTSVQRQFALDIGPKLLNSLDIFTNYTYAEMGFPKMDQVAIPDFAAGAMENWGLVTYRERLLLYNDDITINRDKQNIATVISHEFAHMWFGNLVTMDWWSETFLNEGFATYFEYFTTHDVLPEWELDKQFVTRVIQPILETDSQASSQALQAPANSDAQVMNRFSRISYFKGASIFRMAEYIIGPDAFQNGLKSYLLEYQFLNTKPEDLWRHLEDQLTESEKSKLPADLGTIMSNWVAQAGYPLIDVQYDNGNFIIKQSGRFLLNGVNSSLSWYVPLTYTVPNSSSRFENTTVSLWLKP**S**ESVTIPQEEASWIILNNKVTGFYRVHYNDIWSKIAEALQGDSHSSIPELNRAALVDDIFNLARANIISYTNALNYVEFLKDETSHHVWTAAINGFNFLLQRVGADTTLGKSISEHVLNLLAKVYATVPWIQVDSNDHAYSLKQSDILSVACRLGLSNCVNHALEHHGEFLLTSNLPSKNLIPIIYCTALRHGNEPSNFNIIWSNYGLSSDAGERVQLLNALGCTQNPTQQEQYLNKSINPQSGIRPQDASIVFTSVYSSNPSGVDVAFRFLQANYEEIAERYQSMNALSTLISGLAERFTTTEQIEELRRFIDTSSLDQDFREACESALARAEGNLEWLQKHLPELYEIYELDEFGEPL**TPTTSTTS**EV**STS**PV**TT**P**S**PV**T**PAPAPLPDAAKMLSFNFVFVLLITIISVSVAVY

**Figure S2.** Structural features for RfAPN2a (A) and RfAPN2b (B) sequences identified in *Rhynchophorus ferrugineus*. The bold blue letters represent the O-glycosylation sites; the red letters represent the N-glycosylation sites, and the bold letters denote the signal peptide cleavage sites.