Additional_file_5

α-Defensins

L6I | D27E | A37P | I40N | M64V | I74L | I45L

```
A6   MRTLTILTAVLLVALQAKAEPLQAEDDPLQAKAYEADAQEQRGANDQDFAVSFAEDASSSLRALGSTRAFTCHC*RRSCYSTEYSYGTCTVMGINHRFCCL
A4        MRIIALLAAILLVALQVRAGPLQARGDEAPGQEQRGPEDQDISISFAWDKSSALQVSGSTRGMV**CSCRLVFCRRTELRVGNCLIGGVSFTYCCTRVD
A1        MRTLAILAAILLVALQAQAEPLQARADEVAAAPEQIAADIPEVVVSLAWDESLAPKHPGSRKNMA*CYCRIPACIAGERRYGTCIYQGRLWAFCC
novel                                   MPAQKQPPADDQDVVLYFSGDDSCSLQVPGSTKGLICHCRVLYCIFGEHLGGTCFILGERYPICCY
                                  ...ATTQKQSGEDNQDLAISFAGNGLSALRTSGSQARATCYCRTGRCATRESLSGVCEISGRLYRLCCR
A5
```

Cystein motif

L16I | C24S | T69I R71H A73T T74I R75L | C54S | L57H

β -Defensins

R5K | Y9F | L8F | P22S | P17A | G26S | S44T | I48T | R61G

```
B1                MRTSYLLLFTLCLLLSEMASGGNFLTGLGHRSDHYNCVSSGGQCLYSACPIFTKIQGTC***YRGKAKCCK
B107              MKIFFFILAALILLAQIFQARTAIHRALISKRMEGHC***EAEC*****LTFEVKIGGC**RAELAPFCC
B105     MALIRKTFYFLFAMFFILVQLPSGCQAGLDFSQPFPSGEFAVCESCKLGRGKC*RKECLENEKPDGNC****RLNFLCCRQRI
B103                 MRIHYLLFALLFLFLVPVPGHGGIINTLQKYYCRVRGGRCAVLSCLPKEEQIGKC***STRGRKCCRRKK
B4                     MRVLYLLFSFLFIFLMPLPGVFGGIGDPVTCLKSGAICHPVFCPRRYKQIGTC***GLPGTKCCKKP
B108                     MRIAVLFFTIFFFMSQVLPAKGKFKEICERPNGSC*RDFCLETEIHVGRC****LNSRPCCLPL
```

Cystein motif

M1V | F7L | K21R | E29D | R30S | R53opal truncation loss of 2 Cys