

(a)

>gi|328780825|ref|XP_624392.3|_PREDICTED: hypothetical protein
_LOC552009_isoform_1 [Apis mellifera]

MQRTLFFKKFLMPCGLCAAVPAMKPFIPPEHPAPCSNEIQGKKLIKPSLEPIYSIDDDGYT
KQMPCIQYPSIVEDNIRKIRQTVSEIKLTIDKISR**DISSLESLEK**FISDYLDQDQANLMMPR
IGAVGVGGLSGLIISLRGGIFKRLMYTTTGA AIVGCVCFPKETKETVNTMEHYGNVSYNF
IYGVKPGDNKK**EISFNEFPLVK**SVLESEYFR**MLVQFFEQKTNDTPTTTDDVVLDTTAK**TE
INKKK!



ApoO conserved donmain



Peptides identified

(c)

>gi|66510575|ref|XP_392939.2| PREDICTED: hemocyte
protein-glutamine gamma-glutamyltransferase-like [Apis
mellifera]

MSREEP**LVVEMV**YLYEKENAK**LHHT**IN**YELV**HLDP**PAAVLR**RGQSFHIALRFNREYIDE
IDIVRL**LSFGPN**NVLRGTRGVNTITNRDSYLTDL**EAWG**VRLIGVSGVDLSAEVRSFV
DSPVGM**WQLNI**ETTIVGSKRSPNTYNYDK**DIYLLFN**PWL**KED**LVYMEDEQLLDEYILND
VGKIWVGAWGSARGREWIFGQFDAYVLK**ACQLLL**ERSGIKANSRGDPQIMCRAISRIVN
SNDKGVVTRGWDG DYQDGTAPA AWTGSVPIL**EQFLET**GESV**KYGQCW**VFAGVVT**TVCR**
ALGIPSRVVSN**LVSAH**DANAS**LSVDR**YYSKENE**ELEYD**PNNVEGEDSIWNYHVWNDVWM
AR**PDL**KPGYGGWQ**AID**ST**FP**QEPSEGVYQCPASVEAIKQGVVGYNDVTFMLASVNADL
MRWIEDPDSEMGFRKIDCNKYHIGRMILTKAPWVYDPNGDRDREDITSLYKAKEGTELE
RLTLRAVRSTELAKRFYSLSPAKEDVE**FDLV**DIER**VNIGEP**FAV**IVNI**KNKSNEKRT
IQAILSAGSVYYKGIKAYLVKRASGDFVLEPYASEQLRLTITVDDYLDKLVEYCNM**KLY**
SATVVE**TKT**WADEDD**FQVL**KPNIV**KIDG**EPTVG**KPSI**ISLR**FN**KPNLQ**RVLT**DKCFN
YAGPGLTRNKTLA**FRD**VDP**FEED**VYVEH**QLIP**QAGSQKI**IAT**FTSKELVDVTGSAVIDV
LDMDE

Domains

Transglut (pfam00868)

Transglut_core (cl10469)

Transglut_C (pfam00927)



Peptides identified

(b)

