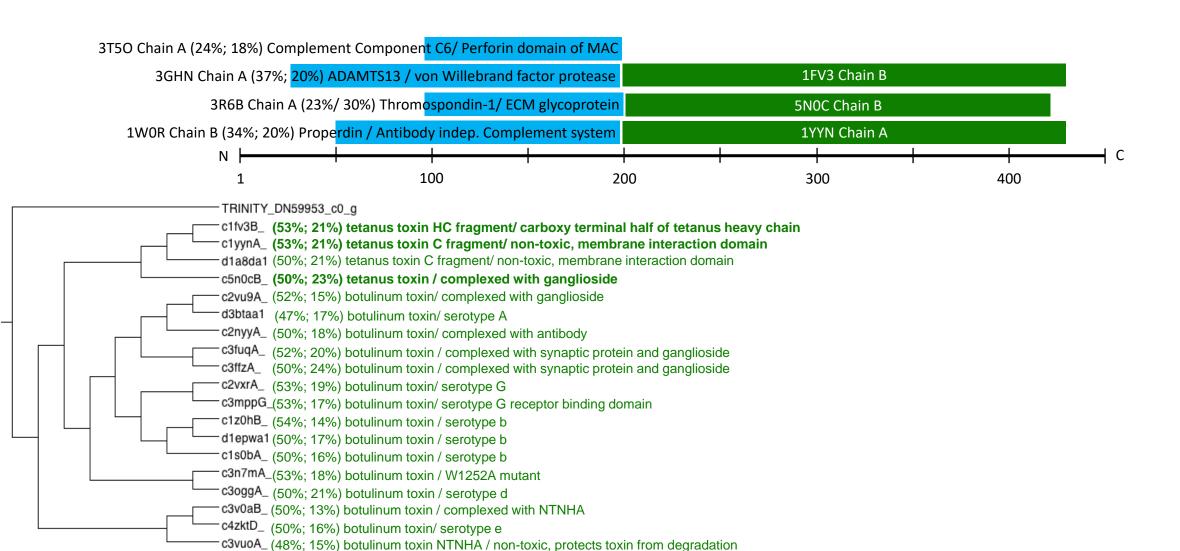
SeqID: TRINITY_DN59953_c0_g1_i1 **Annotation:** uncharacterized protein

Identified by seq analysis: N

Key: (X%; Y%) A / B X = Alignment coverage Y = %ID between query and temple A = Molecule name B = Molecule description NP= Alignment & %ID not provided by Phyre2; Green = same clade; Purple = Earlier common ancestor; Red = Non-valid entry; Blue = Not in tree

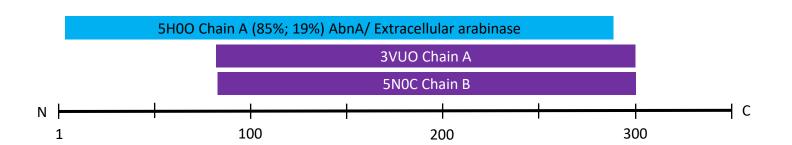
3T5O Chain A (Alignment coverage%; identity%) Complement Component C6/ Perforin domain of MAC

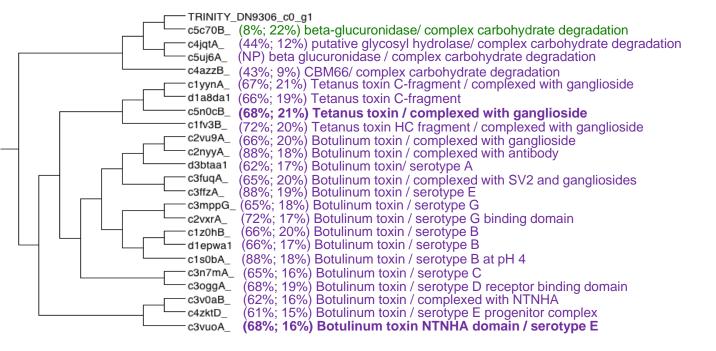


SeqID: TRINITY DN9306 c0 g1 i1

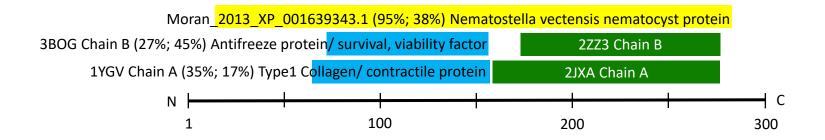
Annotation: Nematobalst-specific nb012a

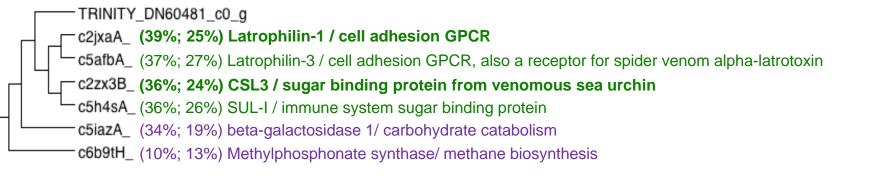
Identified by seq analysis: N





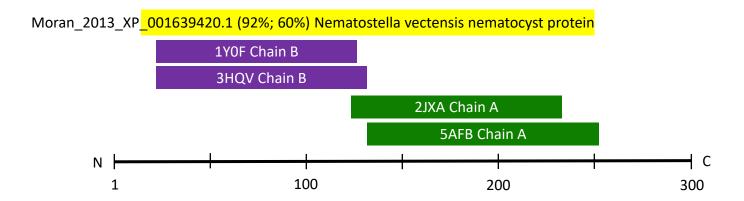
SeqID: TRINITY_DN60481_c0_g1_i1
Annotation: Nematogalectin C
Identified by seq analysis: Y

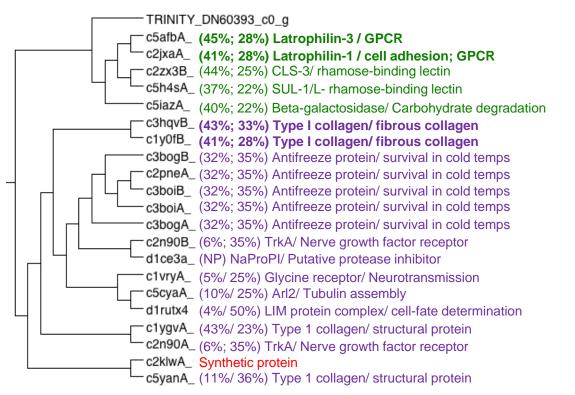




SeqID: TRINITY_DN60393_c0_g1_i1 **Annotation:** Nematogalectin-related

Identified by seq analysis: Y

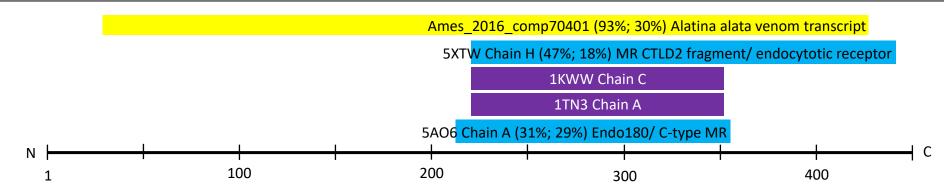


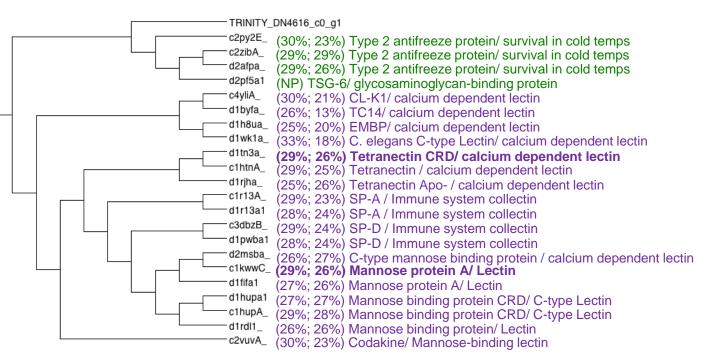


SeqID: TRINITY_DN4616_c0_g1_i1

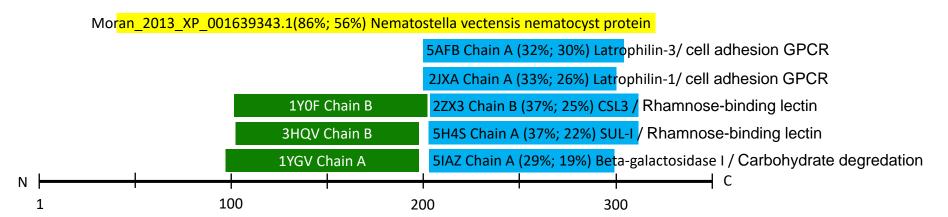
Annotation: Macrophage mannose receptor 1-like

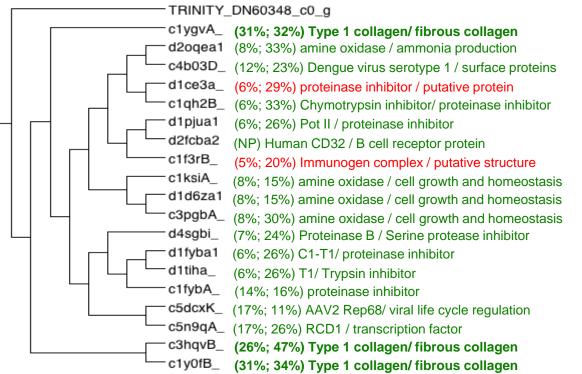
Identified by seq analysis: Y





SeqID: TRINITY_DN60348_c0_g1_i1
Annotation: Nematogalectin A
Identified by seq analysis: Y

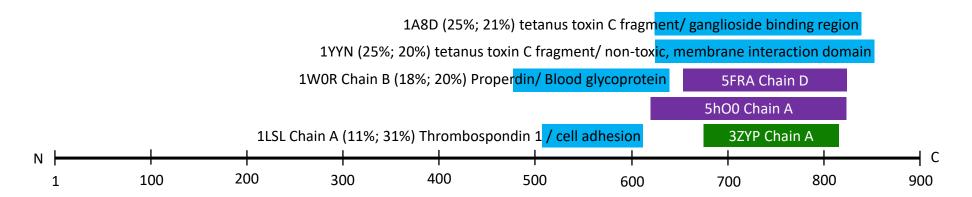


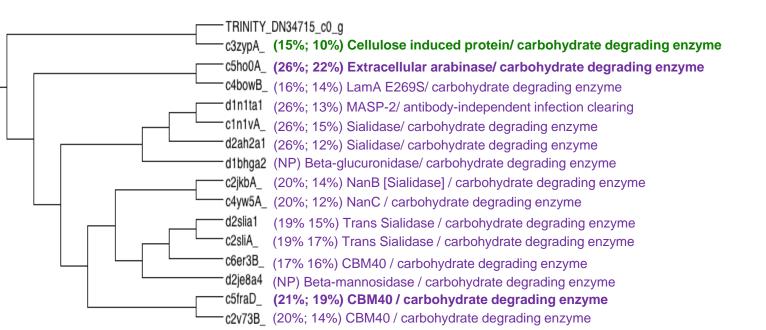


SeqID: TRINITY_DN34715_c0_g1_i1

Annotation: Adhesion G-coupled receptor B3-like

Identified by seq analysis: N

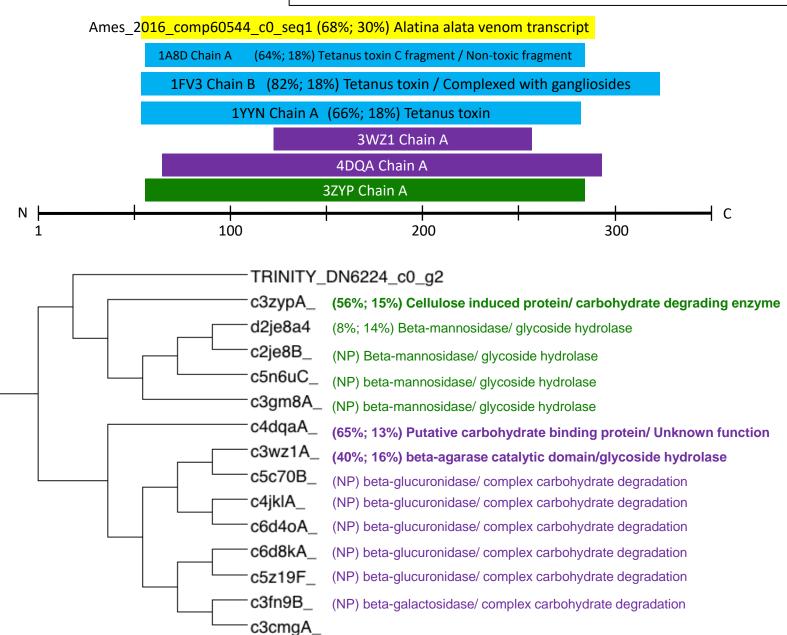




SeqID: TRINITY_DN6224_c0_g2_i1

Annotation: nematoblast-specific nb012a

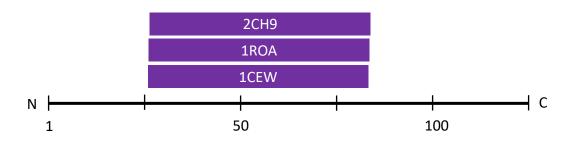
Identified by seq analysis: Y

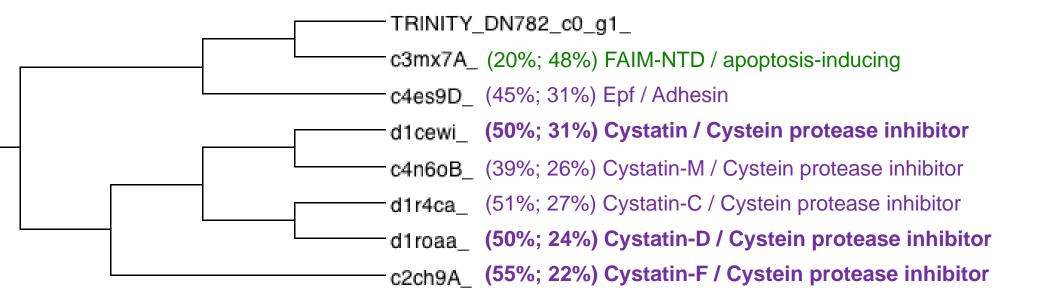


SeqID: TRINITY DN782 c0 g1 i1

Annotation: Stefin 2

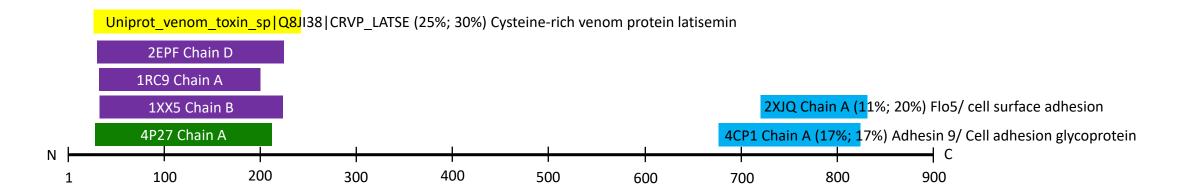
Identified by seq analysis: N

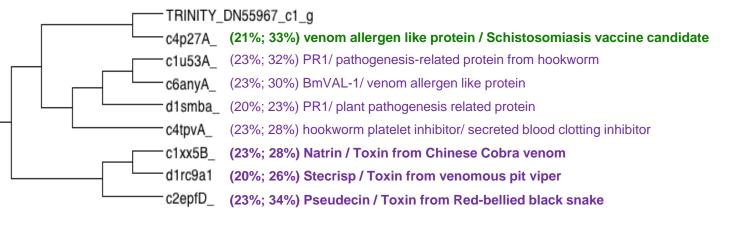




SeqID: TRINITY_DN55967_c1_g1_i2 **Annotation:** Peptidase inhibitor 16-like

Identified by seg analysis: Y

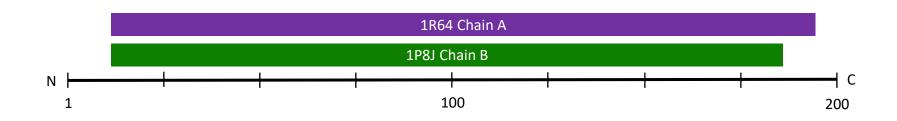


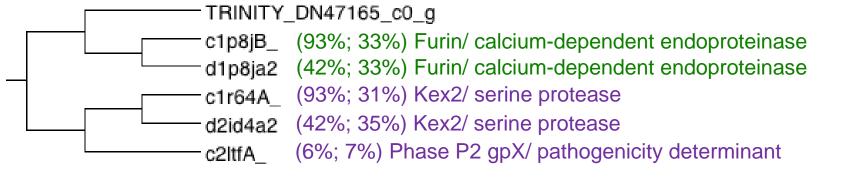


SeqID: TRINITY_DN47165_c0_g1_i4

Annotation: PC3-like endoprotease variant B

Identified by seq analysis: N

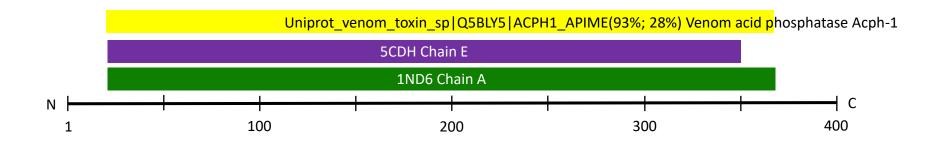


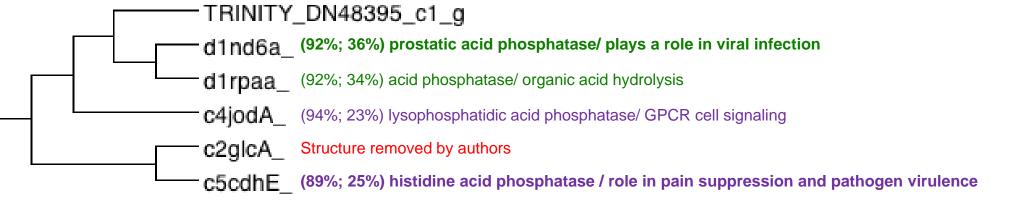


SeqID: TRINITY DN48395 c1 g1 i1

Annotation: prostatic acid phosphatase isoform X2

Identified by seq analysis: Y

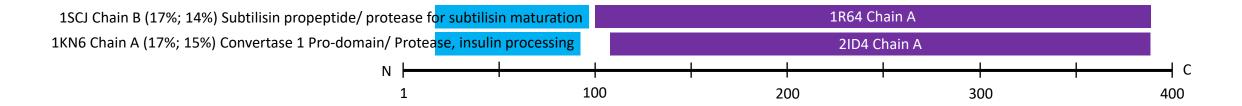


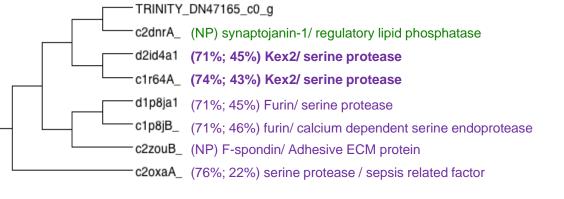


SeqID: TRINITY_DN47165_c0_g1_i5

Annotation: PC3-like endoprotease variant B

Identified by seq analysis: N

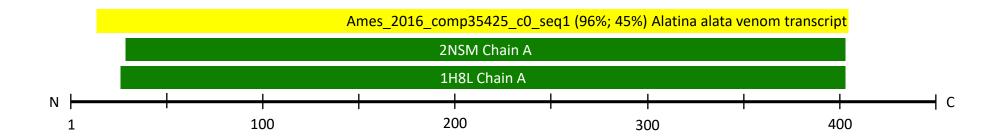


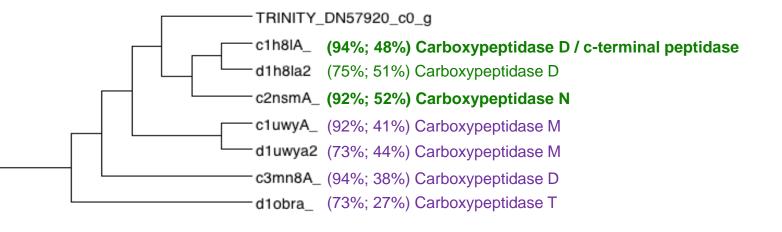


SeqID: TRINITY DN57920 c0 g1 i1

Annotation: Carboxypeptidase N catalytic chain

Identified by seq analysis: Y





SeqID: TRINITY_DN54320_c0_g1_i1
Annotation: Carboxypeptidase_D
Identified by seq analysis: Y

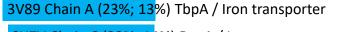
Key: (X%; Y%) A / B X = Alignment coverage Y= %ID between query and temple A = Molecule name B = Molecule description NP= Alignment & %ID not provided by Phyre2; Yellow = Sequence from database; Green = same clade; Purple = Earlier common ancestor; Red = Non-valid entry; Blue = Not in tree

Brinkman_2012_156400736 (51%; 50%) Chironex fleckeri venom protein

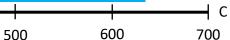
1UWY Chain A 1H8L Chain A 2IAH Chain A (32%; 12%) Ferripyoverdine receptor / Iron uptake

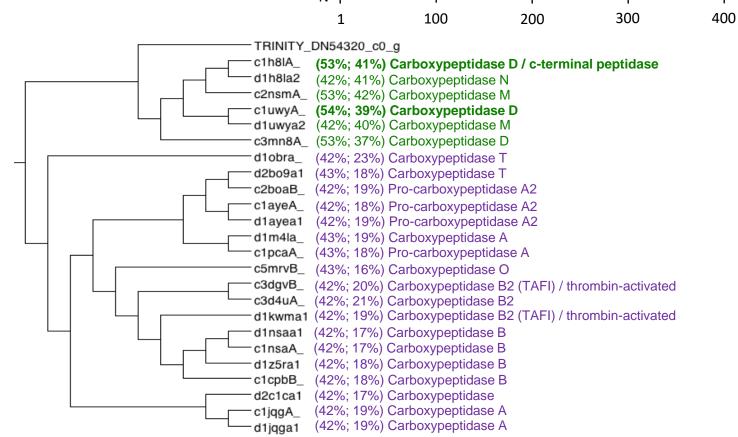
3QLB Chain A (23%; 14%) TonB-dependent transporter/ Iron uptake

4EPA Chain A (18%; 12%) FyuA / Iron uptake



6H7V Chain C (22%; 14%) BauA / Iron transporter

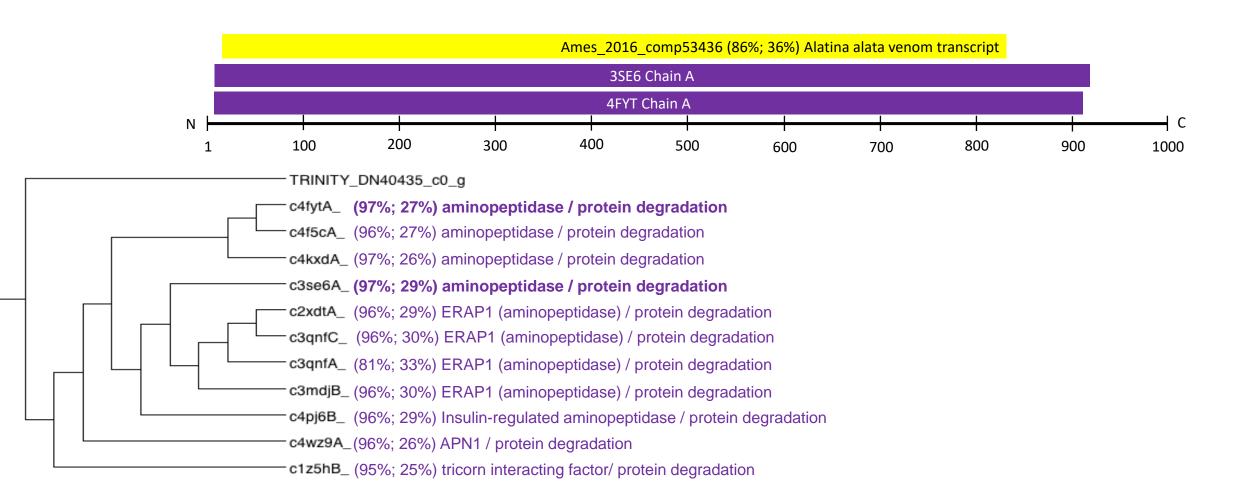




SeqID: TRINITY_DN40435_c0_g1_i1

Annotation: endoplasmic reticulum aminopeptidase 1-like

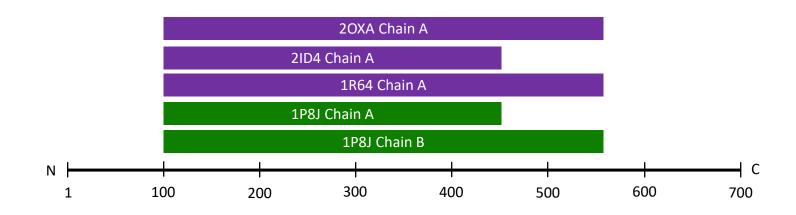
Identified by seq analysis: Y

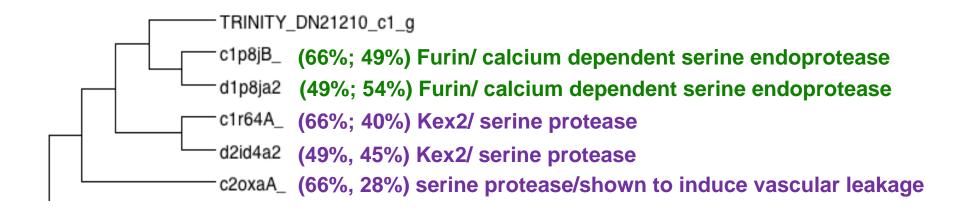


SeqID: TRINITY_DN21210_c1_g1_i1

Annotation: PC3-like endoprotease variant B

Identified by seq analysis: N

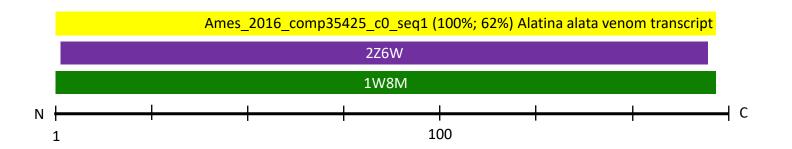


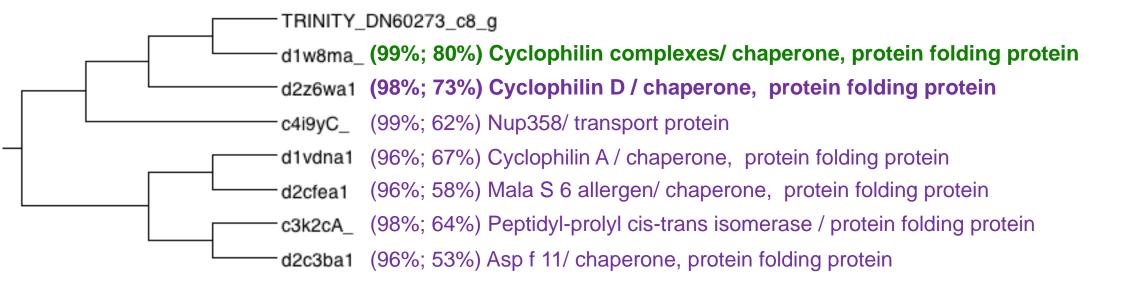


SeqID: TRINITY_DN60273_c8_g1_i1

Annotation: peptidyl-prolyl cis-trans isomerase A

Identified by seg analysis: Y



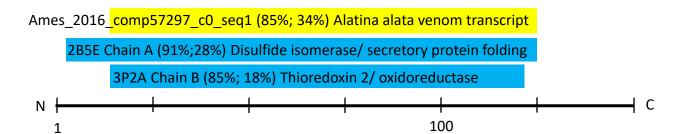


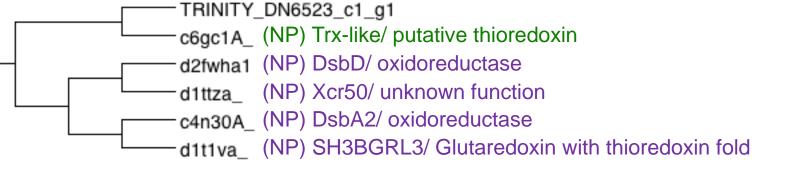
SeqID: TRINITY_DN6523_c1_g1_i1 **Annotation:** disulfide-isomerase A3

Key: (X%; Y%) A / B X = Alignment coverage Y = %ID between query and temple A = Molecule name B = Molecule description NP= Alignment & %ID not provided by Phyre2; Yellow = Sequence from database; Green = same clade; Purple = Earlier common ancestor; Red = Non-valid entry: Blue = Not in tree

Identified by seq analysis: Y

Non-valid entry; Blue = Not in tree





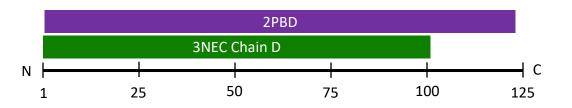
SeqID: TRINITY DN58421 c12 g1 i1

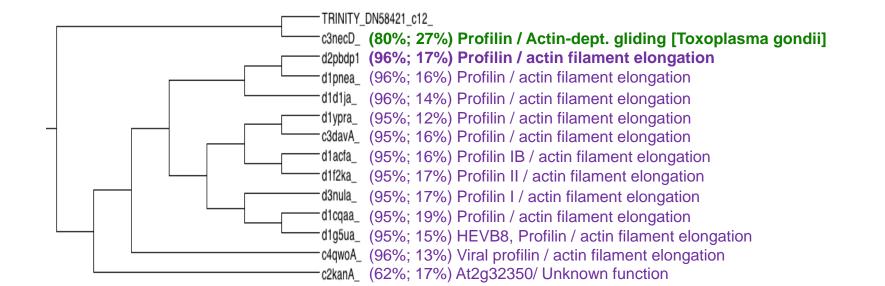
Annotation: NA

Identified by seq analysis: N

Key: (X%; Y%) A / B X = Alignment coverage Y = %ID between query and temple A = Molecule name B = Molecule description

NP= Alignment & %ID not provided by Phyre2; Green = same clade; Purple = Earlier common ancestor; Red = Non-valid entry; Blue = Not in tree





SeqID: TRINITY DN10998 c2 g1 i1

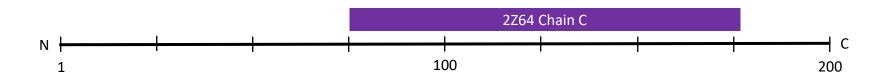
TRINITY_DN10998_c2_g

Annotation: NA

Identified by seq analysis: N

Key: (X%; Y%) A / B X = Alignment coverage Y= %ID between query and temple A = Molecule name B = Molecule description

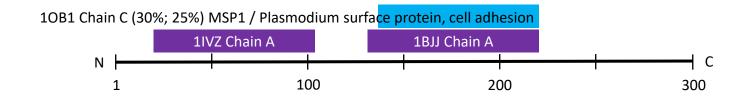
NP= Alignment & %ID not provided by Phyre2; Green = same clade; Purple = Earlier common ancestor; Red = Non-valid entry; Blue = Not in tree

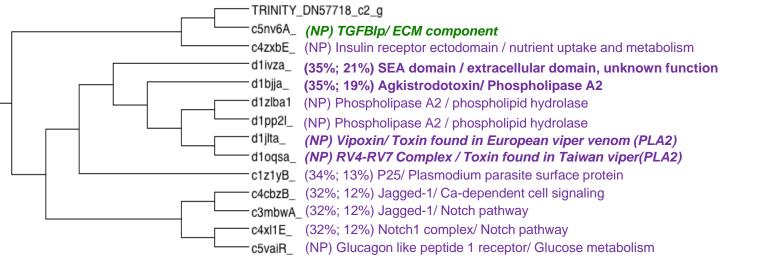


```
c3najA_ (24%; 26%) galectin-8 / cell adhesion, cell matrix interaction
c3wv6B_(35%; 20%) galectin-9 / cell adhesion, cell matrix interaction
d1nepa_(61%; 19%) NPC2 / cholesterol binding protein
d1xwva_(61%; 19%) Der f 2 / dust mite allergen
d1ktja_ (61%; 20%) Der f 2 / dust mite allergen
c2z64C_(53%; 21%) TLR4 ectodomain / innate immune response activation
c2e59A_(53%; 21%) MD-2/ innate immune response activation
```

SeqID: TRINITY DN57718 c2 g1 i1

Annotation: TKL Kinase Identified by seq analysis: N

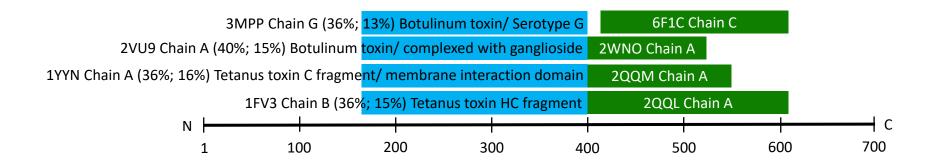


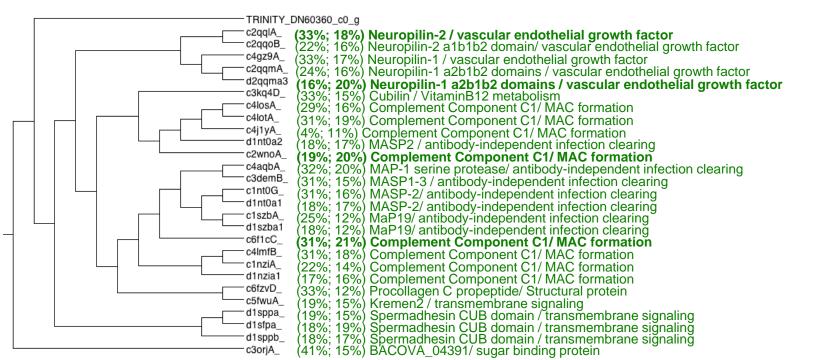


SeqID: TRINITY_DN60360_c0_g1_i1

Annotation: Nematoblast-specific nb012a

Identified by seq analysis: N





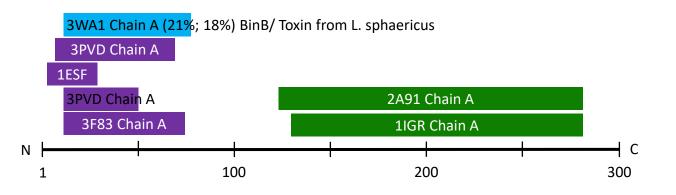
SeqID: TRINITY DN3120 c1 g1 i1

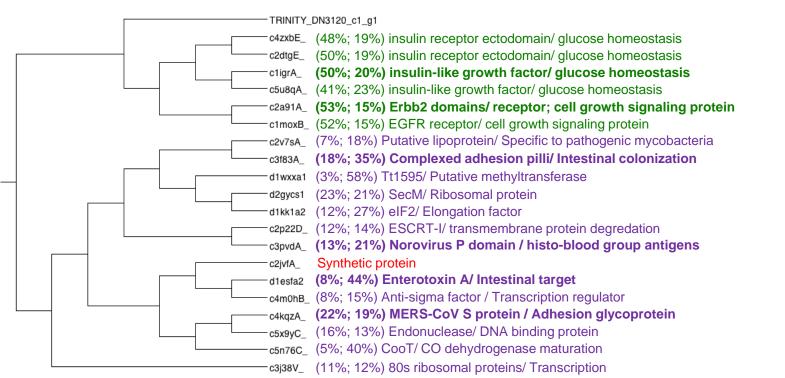
Annotation: NA

Identified by seq analysis: N

Key: (X%; Y%) A / B X = Alignment coverage Y= %ID between query and temple A = Molecule name B = Molecule description

NP= Alignment & %ID not provided by Phyre2; Green = same clade; Purple = Earlier common ancestor; Red = Non-valid entry; Blue = Not in tree





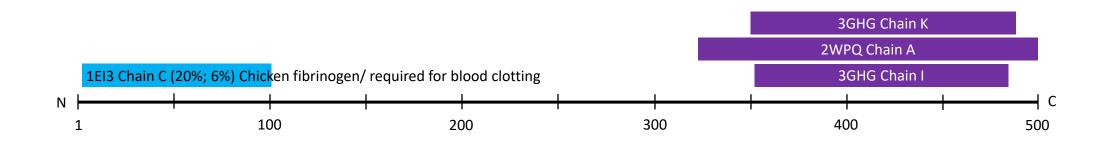
SeqID: TRINITY_DN52005_c0_g3_i2

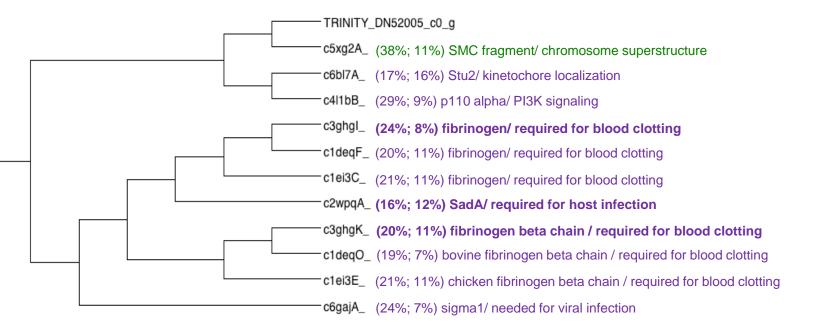
Annotation: NA

Identified by seq analysis: N

Key: (X%; Y%) A / B X = Alignment coverage Y = %ID between query and temple A = Molecule name B = Molecule description

NP= Alignment & %ID not provided by Phyre2; Green = same clade; Purple = Earlier common ancestor; Red = Non-valid entry; Blue = Not in tree

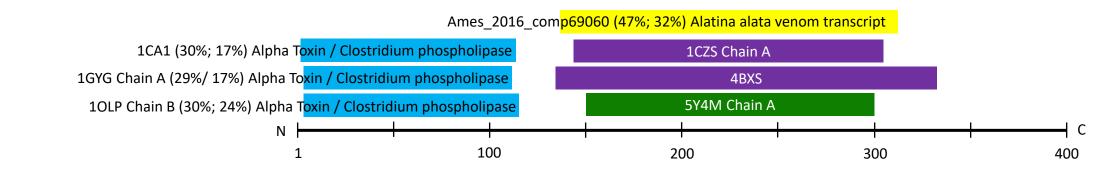


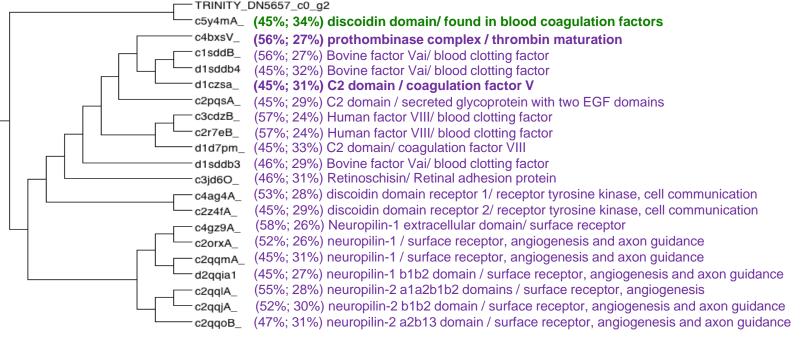


SeqID: TRINITY_DN3183_c1_g2_i1

Annotation: EGF-like repeat and discoidin I-like domain-containing 3

Identified by seq analysis: Y





SeqID: TRINITY_DN9426_c0_g1_i2

Annotation: glutamine gamma-glutamyltransferase

Identified by seg analysis: N

Key: (X%; Y%) A / B X = Alignment coverage Y= %ID between query and temple A = Molecule name B = Molecule description NP= Alignment & %ID not provided by Phyre2; Green = same clade; Purple = Earlier common ancestor; Red = Non-valid entry; Blue = Not in tree

- C

700

600

