

| Gene Cluster ID | | Atp6v1E | | | |
|-------------------------------------|--|--|---|---|--|
| Drosophila melanogaster gene | | Vha26 (CG1088) | | | |
| FlyBase ID | | FBgn0015324 | | | |
| Predicted function | | ATPase, H+ transporting, V1 subunit E | | | |
| Atp6v1E CLEAR element conservation: | | | | | |
| | 5' / 5' UTR | intron1 | intron1 | intron1 | |
| Dmel\ | ACTTT CGTG AAAT TCATATGA TCGATT GCAGT | GGA TCTCCC AGG TCATGTGA ACTTTTCA CCGC | AATTCGTGCTGGT TCATGTGA CACGGCCCC CGC | CATG TCCAGTTA TCATGTGA CACACAGGCAAC | |
| Mdom\ | AAAATTTCCCTT TCACATGA TGGGATATTTAC | TCATGGGATATG TCATGTGA ATATTTGTTGTC | CATTAACAGAAG TCATGTGA TCAAAATGTAGG | | |
| Ccap\ | AAATTTCCCCA ATCATATGA TAAAAAAAAAAG | TCATGGGATGTG TCATGTGA ATACGAAGTGTA | CAATGGGGCTTG TCATGTGA CCAACCGAACGT | GCTTACAAC TAA TCATGTGA TTAAAGTTTGA | |
| Gmor\ | TAA CCCTGTT ATCATATGA CCAA GAGAAAA | AGAT TCGAGTAGTCATGTGA TCAT TTGGTTGAA | | | |
| Llon\ | TACA ACTCCA ATTCATATGA CTGACTTTGGTC | TTTTCC TTGAAG TCATGTGA CT CTTCGCCATG | | | |
| Ppap\ | TAA ATACACGA ATTCATATGA TCAC TTGGACA | TTTTCC TCCAAG TCATGTGA CT-- TCGCCATG | | | |
| | | | | | |
| Agam\ | ----- | CGGGTCACGGGACCT--GTCATGTGAAAAGTG | ATGCAATATGTGTCACATGACCGACTCTCCCC | TACT GGT AGTCATATGACGG GCTTACAAG | |
| Aara\ | ----- | CGGGTCACGGGACCT--GTCATGTGAAAAGTG | ATGCAATATGTGTCACATGACCGACTCTCCCC | TACT GGG AGTCATATGACGG GCTTACATG | |
| Aqan\ | ----- | CGGGTCACGGGACCT--GTCATGTGAAAAGTG | ATGCAATATGTGTCACATGACCGACTCTCCCC | TACT GGT AGTCATATGACGG GCTTACATG | |
| Achr\ | ----- | CAGGTCACGGGACCT--GTCATGTGAAAAGTG | ATGCAATATGTGTCACATGACCGACTCTCCCTCC | TGCT GCTGGG AGTCATATGAC AGGCTTATGTT | |
| Aepi\ | ----- | CGGGTCACGGGACCT--GTCATGTGAAAAGTG | ATGCAATATGTGTCACATGACCAACTCCCCC | AT CGTACTTGTGT CATATGACGG GCTTATGTT | |
| Amin\ | ----- | CAGGTCACGGGACCT--GTCATGTGAAAAGTG | ATGCAATATGTGTCACATGACCTCACGGGCA | CGTACAGGG GTGTCATATGACATGCTCTCGAT | |
| Afun\ | ----- | CAGGTCACGGGACCT--GTCATGTGAAAAGTG | ATGCAATATGTGTCACATGACCTCACGGGCA | AGGAGGG GGCGT CATATGAC ATGCTCACGAT | |
| Aste\ | ----- | TGGGTCACGGGACCT--GTCATGTGAAAAGTG | ATGCAATATGTGTCACATGACCTCCTCCGACG | CCTATGCT GGTGT CATATGAC GTGCTTAGAAC | |
| Adir\ | ----- | CGGGTCACGGGACCTCCGTCATGTGAAAAGTG | ACGAAATATGTGTCACATGACCTCGGTGGAT | TT CGTGCTGGTGT CATATGAC ATGCTCAGGAG | |
| Aalb\ | ----- | TGGGTCACGGGACCT--GTCATGTGAAAAGTG | AAAATATGTTGTCACATGACTTCTCTCTCT | CGG CGGCAAGTGT CATATGAC ATGCCAAGAG | |
| Adar\ | ----- | TGGGTCACGGGACCT--GTCATGTGAAAAGTG | AAAATATGTTGTCACATGATCTGCGCTCTCT | CGG CGGCAAGTGT CATATGAC ATGGCGAGGGG | |
| Cqui\ | TTT TACCTTTGA TCATGTGA AAGTTGCT CAT | GTGGTCACGGGACCT--GTCATGTGAAGTGAC | CAAA AAAGAGAGT CACATGACCACTAGCAT CG | ----- | |
| Aaeg\ | CT CTTCTGTCTG TCATGTGA GATATTT TCCTT | GAGGTCACGGGACCT--GTCATGTGAAGCAAG | AAACAAAAGTGT CACATGACCACTAGTG GGC | ----- | |
| | | | | | |
| Mdes\ | CGAATGATAGAGTCATATGA CT TATCAGACTA | TTGTTTCAAAT GTCA TGTGAATGAAATGATAT | TGTGTGCGAAC GTCACATGA T CAACA TTTCAA | ----- | |
| | | | | | |
| | 5' / 5' UTR | intron2 | | | |
| Bmor\ | GCAACACTAAGATTCATATGAT TGTTCAAT AAA | ACGAACGAACA TCATGTGA CCAAGCAGT ATT | | | |
| Dple\ | TAA CA TTAAAGATCATATGAT TGTTCAAT GAA | TATGTAAT TATATCACATGACAT CTTAGTAT C | | | |
| Msex\ | GCAACACTGGGATCATATGAT TGTTCAAT GAA | GG TGTAGGTATGTCACATGA GAA TTTGCACA | | | |
| Hmel\ | CAACATTAATGATTCATATGAT TGTTCAAT GAA | ----- | | | |
| Pxyl\ | CAACACCAAAAATCATATGAT CGTTCAAT GAA | GTTGAATAGTGG TCATGTGA TTATGTTCAAG G | | | |
| | | | | | |
| Tcas\ | ATAAGGTC AAAAATCATATGAT CAATCAGTCTG | TGCCTTTTCAT GTCATGTGAT CTATTGCAGTC | | | |
| Dpon\ | CACCTGCTCCC ATCATATGAT CAATCTACAAC | ATCTCATGCTGG TCATGTGAT TCGCATTGAC | | | |
| | | | | | |
| Amel\ | CACACTACTGT GTTCATATGATCGTCA TTAACT | | | | |
| Aflo\ | CACACTACTGT GTTCATATGATCGTCA TTAACT | | | | |
| Bter\ | ACACTACCTGT GTTCATATGATCGTCA TTAACT | | | | |
| Bimp\ | ACACTACCTGT GTTCATATGATCGTCA TTAACT | | | | |
| Mrot\ | ACTAGTCT TTGTGTTCATATGATCATCA TTAACT | | | | |
| Aech\ | TCACACTTCGGGTCATATGACCGACG TTACGC | | | | |
| Pbar\ | TCACACTTCGGGTCATATGACCGACG TTACGC | | | | |
| Hsal\ | TCACATTTCGGGTCATATGATCGACG TTACGC | | | | |
| Acep\ | TCATGCTTCGGGTCATATGACCGACG TTACGC | | | | |
| Lhum\ | TCACGCTTTGGGTCATATGACCGACG TTACGC | | | | |

Sinv\ TCACACTTTAGGTCATATGACCGACGTTACGC
Cflo\ CACATTTTCGAGTCATATGACCGACGTTACGC
Ngir\ TAACTCGGCCGGTCATATGATCGTCATGTGAG
Nlon\ TAACTCGGCCGGTCATATGATCGTCATGTGAG
Nvit\ TAACTCGGCTGGTCATATGATCGTCATGTGAG
Lful\ CGTTGTACGATATCATATGATCAACTCGTAAC
Phum\ TATGTGAATTGATCATATGATCGTCTGCAAAG

Dpul\ CACCCACTGCTGTCACATGACAAACCAAATCAGCTGACACTAGTAAGGA
Isca\ ACTCGGCCGGACATCAGATGACGGCTGTGCGGC

Atp6v1E gene structure comparison:

Key: UTR region, CDS region INTRON

| Order | Species | Atp6v1E orthologs | 5'exon | | int | exon | int | exon | | | int | exon3' | | Extended CLEAR region | Position | bps from TSS |
|-------------------------|----------------------------------|--|------------|----|------|------|-----|---------------|----|---------------|------|--------|------|---|---|--------------------------------|
| Diptera (Drosophilidae) | <i>Drosophila_melanogaster</i> | Dmel\Vha26 | 275 | 33 | 529 | 213 | 78 | 327 | | | 61 | 108 | 1353 | actttcgtgaaaTCATATGAtcgatttcgagt ggatctcccaggTCATGTGAacttttcaccgc aatctgtcgtggTCATGTGAacaggccccgc catgtccagttaTCATGTGAcacacaggcaac | 5'UTR intron1 intron1 intron1 | 48 447 614 794 |
| Diptera (Muscidae) | <i>Musca_domestica</i> | Mdom\Atp6v1E | | 33 | 1069 | 213 | 74 | 330 | | | 1462 | 108 | | aaaatttccctTCACATGAtgggatatttac tacaactaccaaTCACTTGAacttgaagttaa tcatgggatagTCATGTGAatatattgtgtc cattaacagaagTCATGTGAtcaaatgttagg | 5'UTR? 5'UTR? intron1 intron1 | >-294 >-265 >231 >457 |
| Diptera (Tephritidae) | <i>Ceratitis_capitata</i> | Ccap\Atp6v1E | | 33 | 797 | 213 | 62 | 327 | | | 142 | 108 | | aaatttcccaaTCATATGAaaaaaaaagg tcatgggatgtTCATGTGAatcagaagtgtga caatggggcttgTCATGTGAccaaccgaact gcttacaactaaTCATGTGAttaaaatttga | 5'UTR? intron1 intron1 intron1 | >-305 >198 >390 >717 |
| Diptera (Glossinidae) | <i>Glossina_morsitans</i> | Gmor\Atp6v1E | 106+88 | 33 | 1629 | 213 | 64 | 327 (132+195) | | | 858 | 108 | 223 | taacctgtttaTCATATGAccaagagaaaa agattcgagtagTCATGTGAtcattgggtgaa | 5'UTR? intron1 | -4 517 |
| Diptera (Psychodidae) | <i>Lutzomyia_longipalpis</i> | Llon\Atp6v1E | ND | 33 | 669 | 213 | 59 | 132 | 60 | 303 | | | ND | tacaactccaaaTCATATGActgactttgtc ttttcctgaagTCATGTGAactctgccatg | 5'UTR? intron1 | >-125 >442 |
| | <i>Phlebotomus_papatasi</i> | Ppap\Atp6v1E | ND | 33 | 609 | 213 | ND | 132 | 69 | 303 (195+108) | | | ND | taaatcacgaaTCATATGAtcaccttggaca taaaatcgacgTCATGTGAattcaattgatt ttttctccaagTCATGTGAacttgcacatgtt | 5'UTR? intron1 intron1 | >-122 >189 >411 |
| | | | | | | | | | | | | | | | | |
| Diptera (Culicidae) | <i>Anopheles_gambiae</i> | Agam\Atp6v1E AGAP002401 | 226+147+33 | 33 | 826 | 345 | | | 79 | 195 | 74 | 108 | ND | tcacgggacctgTCATGTGAaaagtgtcaaac atgcaatatgtTCACATGAccgactctcccc tactgctgtagTCATATGAcgggcttacaag | intron1 intron1 intron1 | 440 717 974 |
| | <i>Anopheles_arabiensis</i> | Aara\Atp6v1E | ND | 33 | 830 | 345 | | | 79 | 195 | 74 | 108 | ND | tcacgggacctgTCATGTGAaaagtgtcaaac atgcaatatgtTCACATGAccgactctcccc tactgctggagTCATATGAcgggcttacatg | intron1 intron1 intron1 | >197 >476 >732 |
| | <i>Anopheles_quadriannulatus</i> | Aqan\Atp6v1E | ND | 33 | 829 | 345 | | | 80 | 195 | 74 | 108 | ND | tcacgggacctgTCATGTGAaaagtgtcaaac atgcaatatgtTCACATGAccgactctcccc tactgctggagTCATATGAcgggcttacatg | intron1 intron1 intron1 | >197 >475 >731 |
| | <i>Anopheles_christyi</i> | Achr\Atp6v1E | ND | 33 | 805 | 345 | | | 81 | 195 | 85 | 108 | ND | tcacgggacctgTCATGTGAaaagtgtcaaac atgcaatatgtTCACATGAccgactctccc tgctgctgggagTCATATGAcaggcttatgtt | intron1 intron1 intron1 | >194 >468 >696 |
| | <i>Anopheles_epiroticus</i> | Aepi\Atp6v1E | ND | 33 | 809 | 345 | | | 88 | 195 | 76 | 108 | ND | tcacgggacctgTCATGTGAaaagtgtcaaac atgcaatatgtTCACATGAccaactcccc atcgtactgtgTCATATGAcgggcttatgtt | intron1 intron1 intron1 | >186 >442 >680 |

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|----------------------------|--------------------------------|--|-----------|----|------|-----------------|------|-----------------|------|----------------|------|-----|------|---|-------------------------------------|------------------------------|
| | <i>Anopheles_minimus</i> | Amin\Atp6v1E | ND | 33 | 808 | 345 | | | 62 | 195 | 65 | 108 | ND | tcacggggaccgcgTCATGTGAaaagtgtcaaac atgcaatatgtgTCACATGAccctcacggcgca cgtacaggggggTCATATGAcatgctctcgat | intron1 intron1 intron1 | >190 >463 >695 |
| | <i>Anopheles_funestus</i> | Afun\Atp6v1E | ND | 33 | 796 | 345 | | | 74 | 195 | 62 | 108 | ND | tcacggggaccgcgTCATGTGAaaagtgtcaaac atgcaatatgtgTCACATGAccctcacggcgca aggagggggcgTCATATGAcatgctcacgat | intron1 intron1 intron1 | >193 >459 >674 |
| | <i>Anopheles_stephensi</i> | Aste\Atp6v1E | ND | 33 | 789 | 345 | | | 89 | 195 | 74 | 108 | ND | tcacggggaccgcgTCATGTGAaaagtgtcaaac atgcaatatgtgTCACATGAcctctcgcgcg cctatgctgggTCATATGAcgtgcttagaac | intron1 intron1 intron1 | >194 >465 >681 |
| | <i>Anopheles_dirus</i> | Adir\Atp6v1E | ND | 33 | 820 | 345 | | | 69 | 195 | 64 | 108 | ND | acggggacctccgTCATGTGAaaagtgtcaaac acgaaatatgtgTCACATGAccctcgggtgat ttcgtgctgggTCATATGAcatgctcaggag | intron1 intron1 intron1 | >190 >459 >673 |
| | <i>Anopheles_nili</i> | Anil\Atp6v1E | ND | ND | ND | ND | | | ND | ND | ND | 108 | ND | ND | | |
| | <i>Anopheles_albimanus</i> | Aalb\Atp6v1E | ND | 33 | 895 | 345 | | | 76 | 195 | 80 | 108 | ND | tcacggggacctgTCATGTGAaaagtgtgacaatc aaaatatgtggTCACATGActtctctctctct cggcggcgaagtTCATATGAcatgccgaagag | intron1 intron1 intron1 | >315 >596 >828 |
| | <i>Anopheles_darlingi</i> | Adar\Atp6v1E | ND | 33 | 904 | 345 (213 + 132) | | | 74 | 195 | 78 | 108 | ND | tcacggggacctgTCATGTGAaaagtgtgacaatc aaaatatgtggTCACATGActtctctctctct cggcggcgaagtTCATATGAcatgccgagggg | intron1 intron1 intron1 | >317 >596 >831 |
| | <i>Aedes_aegypti</i> | Aaeg\Atp6v1E AAEL012035 | 287 | 33 | 7946 | 213 | 62 | 132 | 66 | 195 | 118 | 108 | 1928 | ctcttctgctgTCATGTGAgatatttctct tcacggggacctgTCATGTGAagcaagtgtatt aaacaaaagtTCACATGAccactagtggcg | 5' intron1 intron1 | -8 671 1037 |
| | <i>Culex_pipiens_qui.</i> | Cqui\Atp6v1E CPJ006751 | 64+133+32 | 33 | 3758 | 213 | 66 | 132 | 55 | 195 | 65 | 108 | 537 | ttttaccttgaTCATGTGAgaagttgctcat tcacggggacctgTCATGTGAagtgacatcgcg caaaaaagagagTCACATGAccactgacatcg cctttgacaaacTCACGTGAaattttctctc | 5' intron1 intron1 intron1 | -27 >567 >870 >1485 |
| Diptera (Cecidomyiidae) | <i>Mayetiola_destructor</i> | Mdes\Atp6v1E | ND | 33 | 548 | 213 | 72 | 327 (132 + 195) | | | 83 | 108 | ND | cgaatgatagagTCATATGActtatcagacta ttgttcaaatgTCATGTGAatgaaatgatat tgtgtgcgaacgTCACATGAtcaacatttcaa | 5' intron1 intron1 | >-341 >191 >383 |
| | | | | | | | | | | | | | | | | |
| Lepidoptera | <i>Bombyx_mori</i> | Bmor\Atp6v1E LOC732990 | ND | 33 | 186 | 176 | 2169 | 169 | 462 | 195 | 1422 | 108 | ND | gcaacactaagaTCATATGAttgttcaataaa acgaacgaacaaTCATGTGAccaagcagtatt | 5' intron2 | >-119 >457 |
| | <i>Manduca sexta</i> | Msex\Atp6v1E | ND | 33 | 195 | 176 | 1821 | 169 | 618 | 195 | 510 | 108 | ND | gcaacactgggaTCATATGAttgttcaatgaa gggtgtaggtatgTCACATGAgaattttgcaca ataaagttgatgTCATGTGAActtaagggttct | 5' intron2 intron2 | >-121 >572 >832 |
| | <i>Danaus_plexippus</i> | Dple\Atp6v1E | ND | 33 | 201 | 176 | 434 | 169 | 348 | 195 | 149 | 108 | ND | taacattaaagaTCATATGAttgttcaatgaa tatgtaattataTCACATGAcatcttagtatc | 5' intron2 | >-120 >440 |
| | <i>Heliconius_melpomene</i> | Hmel\Atp6v1E | ND | 33 | 193 | 176 | 909 | 169 | 308 | 195 | 319 | 108 | ND | caacattaatgaTCATATGAttgttcaatgaa | 5' | >-121 |
| | <i>Plutella_xylostella</i> | Pxyl\Atp6v1E | ND | 33 | 184 | 176 | 2072 | 169 | 435 | 195 | 628 | 108 | ND | caacacccaaaaTCATATGAatgttcaatgaa gttgaaatgtggTCATGTGAattatgttcaagg | 5' intron2 | >-119 >665 |
| | | | | | | | | | | | | | | | | |
| Strepsiptera | <i>Mengenilla_moldrzyki</i> | Mmol\Atp6v1E | ND | 33 | 54 | 176 | 970 | 169 | 819 | 303 | | | ND | ND-- | | |
| Coleoptera | <i>Tribolium_castaneum</i> | Tcas\Atp6v1E LOC659201 | 99 | 33 | 111 | 176 | 53 | 169 | 3968 | 303 | | | ND | ataaggtcaaaaTCATATGAatcatcagctgtg tgccctttcatgTCATGTGAatcatgagctc | 5' intron2 | -16 454 |
| | <i>Dendroctonus_ponderosae</i> | Dpon\Atp6v1E | 99 | 33 | 117 | 176 | 615 | 169 | 226 | 303 (184 +119) | | | ND | ataaaatgtggTCACATGAcagccaaatgtc cacctgtcccaTCATATGAatcaatcacaac atctcatgctggTCATGTGAatgcatttgac | 5' 5' intron2 | >-149 >-118 >381 |
| | | | | | | | | | | | | | | | | |

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|----------------------------|-------------------------------|---|------|-----|------|-------------|------|-----|------|-----------------|-----|----------------|---------------------------------|--|----------------------------------|----------------|-----|
| Hymenoptera | <i>Apis_mellifera</i> | Ame\Atp6v1E GB12913 | 194 | 33 | 914 | 176 | 133 | 169 | 202 | 184 | 217 | 119 | 301 | cacactactgtgTCATATGAtcgtcattaact | 5'UTR | 64 | |
| | <i>Apis_florea</i> | Aflo\Atp6v1E | ND | 33 | 1021 | 176 | 130 | 169 | 147 | 184 | 181 | 119 | ND | cacactactgtgTCATATGAtcgtcattaact | 5'UTR? | >-124 | |
| | <i>Bombus_terrestris</i> | Bter\Atp6v1E LOC100648858 | 164 | 33 | 617 | 176 | 126 | 169 | 136 | 184 | 138 | 119 | 1377 | acactactgtgTCATATGAtcgtcattaact | 5'UTR | 16 | |
| | <i>Bombus_impatiens</i> | Bimp\Atp6v1E | ND | 33 | 1413 | 176 | 129 | 169 | 136 | 184 | 138 | 119 | ND | acactactgtgTCATATGAtcgtcattaact | 5'UTR? | >-140 | |
| | <i>Megachile_rotundata</i> | Mrot\Atp6v1E | ND | 33 | 514 | 176 | 104 | 169 | 86 | 184 | 157 | 119 | ND | actagtcttgtgTCATATGAtcatcattaact | 5'UTR? | >-132 | |
| | <i>Acromyrmex_echinaior</i> | Aech\Atpv1E AECH19756 | ND | 33 | 451 | 176 | 5279 | 169 | 101 | 184 | 195 | 119 | ND | tcacacttcgggTCATATGAccgacgttacgc | 5' | >-134 | |
| | <i>Atta_cephalotes</i> | Acep\Atp6v1E ACEPI5444 | ND | 33 | 469 | 176 | 4706 | 169 | 103 | 184 | 291 | 119 | ND | tcatgcttcgggTCATATGAccgacgttacgc | 5' | >-126 | |
| | <i>Solenopsis_invicta</i> | Sinv\Atp6v1E | 88 | 33 | 590 | 176 | 194 | 169 | 97 | 184 | 140 | 119 | 486 | tcacactttaggTCATATGAccgacgttacgc | 5' | -46 | |
| | <i>Camponotus_floridanus</i> | Cflo\Atp6v1E | ND | 33 | 555 | 176 | 169 | 169 | 141 | 184 | 195 | 119 | ND | cacatttcgagTCATATGAccgacgttacgc | 5' | >-136 | |
| | <i>Harpegnathos_saltator</i> | Hsal\Atp6v1E | ND | 33 | 563 | 176 | 208 | 169 | 129 | 184 | 245 | 119 | ND | tcacatttcgggTCATATGAtcgacgttacgc | 5' | >-144 | |
| | <i>Pogonomyrmex_barbatus</i> | Pbar\Atp6v1E | ND | 33 | 512 | 176 | 199 | 169 | 95 | 184 | 215 | 119 | ND | tcacactcgggTCATATGAccgacgttacgc | 5' | >-132 | |
| | <i>Linepithema_humile</i> | Lhum\Atp6v1E | ND | 33 | 566 | 176 | 174 | 169 | 129 | 184 | 74 | 119 | ND | tcacgctttgggTCATATGAccgacgttacgc | 5' | >-147 | |
| | <i>Nasonia_vitripennis</i> | Nvit\Atp6v1E NV10403 | >127 | 33 | 333 | 176 | 86 | 169 | 80 | 184 | 78 | 119 | 539 | taactcggetggTCATATGAtcgtcatgtgag | 5' | 144 | |
| | <i>Nasonia_giraulti</i> | Ngir\Atp6v1E | ND | 33 | 333 | 176 | 84 | 169 | 80 | 184 | 78 | 119 | ND | taactcgcccgTCATATGAtcgtcatgtgag | 5' | ND | |
| <i>Nasonia_longicornis</i> | Nlon\Atp6v1E | ND | 33 | 333 | 176 | 84 | 169 | 80 | 184 | 78 | 119 | ND | taactcgcccgTCATATGAtcgtcatgtgag | 5' | ND | | |
| | | | | | | | | | | | | | | | | | |
| Hemiptera | <i>Acyrtosiphon_pisum</i> | Apis\Atp6v1E | ND | 33 | 156 | 176 | 705 | 169 | 1177 | 303 | | | ND | ND | | | |
| | <i>Rhodnius_prolixus</i> | Rpro\Atp6v1E | 175 | 33 | 2126 | 176 | 1220 | 169 | 94 | 303 | | | 75 | ND | | | |
| Phthiraptera | <i>Pediculus_humanus</i> | Phum\Atp6v1E PHUM598510 | ND | 33 | 279 | 176 | 87 | 169 | 88 | 303 (152 + 151) | | | ND | tatgtgaattgaTCATATGAtcgtctgcaaag | 5' | >-94 | |
| Odonata | <i>Ladona_fulva</i> | Lful\Atp6v1E | | 33 | 156 | 176 | 384 | 169 | 188 | 152 | 329 | 151 | | aacagaaatcatTCATATGAaccacttcgttg cggtgtacgataTCATATGAtcaactcgtaac | 5' 5' | >-141 >-114 | |
| Crustacea | <i>Daphnia_pulex</i> | Dpul\Atp6v1E | 128 | 33 | 72 | 176(66+110) | 64 | 169 | 59 | 152 | 71 | 151 (88+63) | 275 | caccactgtgTCACATGAcaaacaaaTCAGCTGAcactagtaagga | 5'/5'UTR | -16/2 | |
| Ixodida | <i>Ixodes_scapularis</i> | Isca\Atp6v1E | 98 | 33 | 122 | 66 | 244 | 110 | ND | 184+2187+276 | | | 93 | actcgccggacaTCACATGAcggetgtgcggc | 5' | -1 | |
| | | | | | | | | | | | | | | | | | |
| | <i>Homo_sapiens</i> | ATP6V1E1 | 127 | 33 | 9076 | 66 | 6140 | 110 | 332 | 67+11630+90 | 996 | 69+1738+95 | 3577 | 88+1792+63 | ttgccccgcagcTCATGTGActttgtctcggg | intron1-2 | 333 |
| Cnidaria | <i>Nematostella_vectensis</i> | Nvec\Atp6v1E | 65 | 33 | 158 | 66 | 543 | 110 | 245 | 67+562+90 | 193 | 69+1053+95 | 875 | 88+875+63 | ccaattttccaTCACATGAaaattttattac | 5'UTR | 19 |
| Placozoa | <i>Trichoplax_adhaerens</i> | Tadh\Atp6v1E | 129 | 33 | 115 | 66 | 98 | 110 | 206 | 67+155+90 | 83 | 69+146+95 | 193 | 151 | tacaatttatctTCACGTGAcatgcgttgat | 5' | -21 |