

Supplemental Material

DNA alignment of *tirant env* sequences

D. melanogaster

JN786085	(variant Ca)	ATGGAACAATTCCATCTGACCATTAATAAAATTTAACCCCGATTCCACGTTGACGGACTCC
JN786086	(variant Ca)	ATGGAACAATTCCATCTGACCATTAATAAAATTTAACCCCGATTCTACGTTGACGGACTCC
JN786087	(variant Ca)	ATGGAACAATTCCATCTGACCATTAATAAAATTTAACCCCGATTCTACGTTGACGGACTCC
JN786088	(variant Ca)	ATGGAACAATTCNTCTGACCATTAATAAAATTTAACCCCGATTCCACGTTGACGGACTCC
JN786089	(variant Ca)	ATGGAACAATTCaTCTGACCATTAATAAAATTTAACCCCGATTCCACGTTGACGGACTCC
JN786090	(variant Ca)	ATGGAACAATTCNTCTGACCATTAATAAAATTTAACCCCGATTCTACGTTGACGGACTCC
JN786091	(variant Ca)	ATGGAACAATTCATCTGACCATTAATAAAATTTAACCCCGATTCTACGTTGACGGACTCC
JN786092	(variant Ca)	ATGGAACAATTCATCTGACCATTAATAAAATTTAACCCCGATTCTACGTTGACGGACTCC
JN786093	(variant Ca)	ATGGAACAATTCATCTGACCATTAATAAAATTTAACCCCGATTCTACGTTGACGGACTCC
JN786094	(variant Ca)	ATGGAACAATTCATCTGACCATTAATAAAATTTAACCCCGATTCTACGTTGACGGACTCC
JN786095	(variant Ca)	ATGGAACAATTCaTCTGACCATTAATAAAATTTAACCCCGATTCTACGTTGACGGACTCC
JN786096	(variant Cb)	ATGGAACAATTCNTCTGACCATTAATAAATTTCAACCCCGACTCCACTTTGACGGACTCC
JN786097	(variant Ca)	ATGGAACAATTCATCTGACCATTAATAAAATTTAACCCCGATTCTACGTTGACGGACTCC
JN786098	(variant Cb)	ATGGAACAATTCATCTGACCATTAATAAAATTTAACCCCGACTCCACTTTGACGGACTCC
JN786099	(variant Cb)	ATGGAACAATTCNTCTGACCATTAATAAAATTTAATCCCGACTCCACTTTGACGGACTCC
JN786100	(variant Cb)	ATGGAACAATTCNTCTGACCATTAATAAAATTTAATCCCGACTCCACTTTGACGGACTCC
JN786101	(variant Cb)	ATGGAACAATTCATCTGACCAttataAAATTTAATCCCGACTCCACTTTGACGGACTCC
JN786102	(variant Cb)	ATGGAACAATTCATCTGACCATTANTAAATTTAATCCCGACTCCACTTTGACGGACTCC
JN786103	(variant Ca)	ATGGAACAATTCNTCTGACCNTtaataAAATTTAACCCCGATTCCACGTTGACGGACTCC
JN786104	(variant Ca)	ATGGAACAATTCATCTGACCATTAATAAAATTTAACCCCGATTCCACGTTGACGGACTCC
JQ219965	(variant Ca)	ATGGAACAATTCATCTGACCATTAATAAAATTTAACCCCGATTCTACGTTGACGGACTCC
JQ219966	(variant Ca)	ATGGAACAATTCATCTGACCATTAATAAAATTTAACCCCGATTCTACGTTGACGGACTCC
JQ219967	(variant Ca)	ATGGAACAATTCATCTGACCATTAATAAAATTTAACCCCGATTCTACGTTGACGGACTCC
JQ219968	(variant Ca)	ATGGAACAATTCATCTGACCATTAATAAAATTTAACCCCGATTCTACGTTGACGGACTCC
JQ219969	(variant Ca)	ATGGAACAATTCATCTGACCATTAATAAAATTTAACCCCGATTCTACGTTGACGGACTCC
JQ219970	(variant Cb)	ATGGAACAATTCATCTGACCATTAATAAAATTTAACCCCGACTCCACTTTGACGGACTCC
JQ219971	(variant Cb)	ATGGAACAATTCATCTGACCATTAATAAAATTTAACCCCGACTCCACTTTGACGGACTCC

D. melanogaster

JN786085	(variant Ca)	GTCACAATTTTAAAAACCAAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCT
JN786086	(variant Ca)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCANAGCCCTTACACCA
JN786087	(variant Ca)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCA
JN786088	(variant Ca)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCANAGCCCTTACACCT
JN786089	(variant Ca)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCT
JN786090	(variant Ca)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCA
JN786091	(variant Ca)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCA
JN786092	(variant Ca)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCA
JN786093	(variant Ca)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCA
JN786094	(variant Ca)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCA
JN786095	(variant Ca)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCA
JN786096	(variant Cb)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACGCCA
JN786097	(variant Ca)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCA
JN786098	(variant Cb)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACGCCA
JN786099	(variant Cb)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACGCCA
JN786100	(variant Cb)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACGCCA
JN786101	(variant Cb)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACGCCA
JN786102	(variant Cb)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACGCCA
JN786103	(variant Ca)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCT
JN786104	(variant Ca)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCT
JQ219965	(variant Ca)	GCCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCA
JQ219966	(variant Ca)	GCCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCA
JQ219967	(variant Ca)	GCCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCA
JQ219968	(variant Ca)	GCCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCA
JQ219969	(variant Ca)	GCCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACACCA
JQ219970	(variant Cb)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACGCCA
JQ219971	(variant Cb)	GTCACAATTTTAAAAAGCCAAATTAACCCAAGCCCAAGTAAAGCTCAAAGCCCTTACGCCA

D. melanogaster

JN786085	(variant Ca)	TCATATAGAAACAAACGGGGTTTGATTAACGGATTGGGGAGTCTAGTAAAGGTGGTTACC
JN786086	(variant Ca)	TCATATCGAAACAAACGGGGTTTGATTAACGGATTGGGGAGTCTAGTAAAGGTGGTTACC
JN786087	(variant Ca)	TCATATCGAAACAAACGGGGTTTGATTAACGGATTGGGGAGTCTAGTAAAGGTGGTTACC

JN786097	(variant Ca)	CCATCCATACCTTCGCTATGGCCGTCAC TTCGA ACT - GGGGGGGGAGGAGTTACCACCC
JN786098	(variant Cb)	CCATCCCTACCTTCGCTATGGCCGTCACATCGA ACT - - GGGGAGGGAGGAGTTCCACCC
JN786099	(variant Cb)	CCATCCCTACCTTCGCTATGGCCGTCACATCGA ACT - - GGGGAGGGAGGAGTTCCACCC
JN786100	(variant Cb)	CCATCCCTACCTTCGCTATGGCCGTCACATCGA ACT - - GGGGAGGGAGGAGTTACCACCC
JN786101	(variant Cb)	CCATCCCTACCTTCGCTATGGCCGTCACATCGA ACT - - GGGGAGGGAGGAGTTCCACCC
JN786102	(variant Cb)	CCATCCCTACCTTCGCTATGGCCGTCACATCGA ACT - - GGGGAGGGAGGAGTTCCACCC
JN786103	(variant Ca)	CCATCCATACCTTCGCTATGGCCGTCAC TTCNNNNN - - NGGGGGGGGGNNTTCCACCC
JN786104	(variant Ca)	CCATCCATACCTTCGCTATGGCCGTCAC TTCNA ACTGGGGGGGGGANGAGTTNCCNCCC
JQ219965	(variant Ca)	CCATCCATACCTTCGCTATGGCCGTCAC TTCGA ACT - - GGGGGGGGGGAGNNNNCACCC
JQ219966	(variant Ca)	CCATCCATACCTTAGCTATGGCCGTCAC - TCGA ACT - GGGGGGGGGGAAGNNNNACCC
JQ219967	(variant Ca)	CCATCCATACCTTCGCTATGGCCGTCAC TTCGA ACT - - GGGGGGGGGGAAGNNNNCACCC
JQ219968	(variant Ca)	CCATCCATACCTTCGCTATGGCCGTCAC - TCGA ACT - GGGGGGGGGGAGNNNNCACCC
JQ219969	(variant Ca)	CCATCCATACCTTCGCTATGGCCGTCAC TTCGA ACT - - GGGGGGGGGGAAGNNNNCACCC
JQ219970	(variant Cb)	CCATCCCTACCTTCGCTATGGCCGTCACATCGA ACT - - GGGGAGGGAGGAGTTCCACCC
JQ219971	(variant Cb)	CCATCCCTACCTTCGCTATGGCCGTCACATCGA ACT - - GGGGAGGGAGGAGTTCCACCC

D.melanogaster		CA-CCCCCTAA
JN786085	(variant Ca)	CA-CCCCCTAA
JN786086	(variant Ca)	CA-CCCCCTAA
JN786087	(variant Ca)	CA-CCCCCTAA
JN786088	(variant Ca)	NN-CCCCCTAA
JN786089	(variant Ca)	CACCCCTAA
JN786090	(variant Ca)	CN-CCCCCTAA
JN786091	(variant Ca)	CA-CCCCCTAA
JN786092	(variant Ca)	CN-CCCCCTAA
JN786093	(variant Ca)	CA-CCCCCTAA
JN786094	(variant Ca)	CA-CCCCCTAA
JN786095	(variant Ca)	CA-CCCCCTAA
JN786096	(variant Cb)	CA-CCCCCTAA
JN786097	(variant Ca)	CA-CCCCCTAA
JN786098	(variant Cb)	CA-CCCCCTAA
JN786099	(variant Cb)	CA-CCCCCTAA
JN786100	(variant Cb)	CA-CCCCCTAA
JN786101	(variant Cb)	CA-CCCCCTAA
JN786102	(variant Cb)	CA-CCCCCTAA
JN786103	(variant Ca)	CA-CCCCCTAA
JN786104	(variant Ca)	CNCCCCNTAA
JQ219965	(variant Ca)	CA-CCCCCTAA
JQ219966	(variant Ca)	CA-CCCCCTAA
JQ219967	(variant Ca)	CA-CCCCCTAA
JQ219968	(variant Ca)	CA-CCCCCTAA
JQ219969	(variant Ca)	CA-CCCCCTAA
JQ219970	(variant Cb)	CA-CCCCCTAA
JQ219971	(variant Cb)	CA-CCCCCTAA

Proteic alignment of *tirant env* sequences

D.melanogaster		MEQFH LTINKFNPDSTLTDSVTILKTKLTQAQVKLKALTPSYRNKRGLINGLGS LVKVVT
JN786085	(variant Ca)	MEQFH LTINKFNPDSTLTDSVXILKAKLTQAQVKLXALTPSYRNKRGLINGLGS LVKVVT
JN786086	(variant Ca)	MEQFH LTINKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLINGLGS LVKVVT
JN786087	(variant Ca)	MEQFH LTINKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLINGLGS LVKVVT
JN786088	(variant Ca)	MEQFXLTINKFNPDSTLTDSVTILKAKLTQAQVKLXALTPSYRNKRGLINGLGS LVKVVT
JN786089	(variant Ca)	MEQFH LTINKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLINGLGS LVKVVT
JN786090	(variant Ca)	MEQFXLTINKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLINGLGS LVKVVT
JN786091	(variant Ca)	MEQFH LTINKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLINGLGS LVKVVT
JN786092	(variant Ca)	MEQFH LTINKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLINGLGS LVKVVT
JN786093	(variant Ca)	MEQFXLTINKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLINGLGS LVKVVT
JN786094	(variant Ca)	MEQFH LTINKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLINGLGS LVKVVT
JN786095	(variant Ca)	MEQFH LTINKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLINGLGS LVKVVT
JN786096	(variant Cb)	MEQFXLTINKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLVNLGSPVKVVT
JN786097	(variant Ca)	MEQFXLTINKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLINGLGS LVKVVT
JN786098	(variant Cb)	MEQFH LTINKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLVNLGSLVKVVT
JN786099	(variant Cb)	MEQFXLTINKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLVNLGSLVKVVT
JN786100	(variant Cb)	MEQFXLTINKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLVNLGSLVKVVT
JN786101	(variant Cb)	MEQFH LTINKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLVNLGSLVKVVT
JN786102	(variant Cb)	MEQFH LTIXKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLVNLGSLVKVVT
JN786103	(variant Ca)	MEQFXLTIXKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLINGLGS LVKVVT
JN786104	(variant Ca)	MEQFH LTINKFNPDSTLTDSVTILKAKLTQAQVKLKALTPSYRNKRGLINGLGS LVKVVT

JQ219965 (variant Ca) MEQFHILTINKFNPDSLTDSATILKAKLTQAQVKLKALTPSYRNKRGLINGLGSVLKVVVT
 JQ219966 (variant Ca) MEQFHILTINKFNPDSLTDSATILKAKLTQAQVKLKALTPSYRNKRGLINGLGSVLKVVVT
 JQ219967 (variant Ca) MEQFHILTINKFNPDSLTDSATILKAKLTQAQVKLKALTPSYRNKRGLINGLGSVLKVVVT
 JQ219968 (variant Ca) MEQFHILTINKFNPDSLTDSATILKAKLTQAQVKLKALTPSYRNKRGLINGLGSVLKVVVT
 JQ219969 (variant Ca) MEQFHILTINKFNPDSLTDSATILKAKLTQAQVKLKALTPSYRNKRGLINGLGSVLKVVVT
 JQ219970 (variant Cb) MEQFHILTINKFNTDSTLTDVITLAKKLTQAQVKLKALTPSYRNKRGLVNLGSLVKVVVT
 JQ219971 (variant Cb) MEQFHILTINKFNTDSTLTDVITLAKKLTQAQVKLKALTPSYRNKRGLVNLGSLVKVVVT

D.melanogaster
 JN786085 (variant Ca) GNMDANDNKEIHEELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JN786086 (variant Ca) GNMDANDNKEIHEELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JN786087 (variant Ca) GNMDANDNKEIREELDNIIKKNSEVSNLQKQVMFNERLIRFENITDHNNEQILISKF
 JN786088 (variant Ca) GNMDANDNKEIHEELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JN786089 (variant Ca) GNMDANDNKEIHEELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JN786090 (variant Ca) GNMDANDNKEIREELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JN786091 (variant Ca) GNMDANDNKEIREELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JN786092 (variant Ca) GNMDANDNKEIREELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JN786093 (variant Ca) GNMDANDNKEIREELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JN786094 (variant Ca) GNMDANDNKEIREELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JN786095 (variant Ca) GNMDANDNKEIREELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JN786096 (variant Cb) GNMDANDDKEIHEELDNIIKKNSEVI*-----
 JN786097 (variant Ca) GNMDANDNKEIREELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JN786098 (variant Cb) GNMDANDDKEIHEELDNIIKKNSEVI*-----
 JN786099 (variant Cb) GNMDANDDKEIHEELDNIIKKNSEVI*-----
 JN786100 (variant Cb) GNMDANDDKEIHEELDNIIKKNSEVI*-----
 JN786101 (variant Cb) GNMDANDDKEIHEELDNIIKKNSEVI*-----
 JN786102 (variant Cb) GNMDANDDKEIHEELDNIIKKNSEVI*-----
 JN786103 (variant Ca) GNMDANDNKEIHEELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JN786104 (variant Ca) GNMDANDNKEIHEELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JQ219965 (variant Ca) GNMDANDNKEIREELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JQ219966 (variant Ca) GNMDANDNKEIREELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JQ219967 (variant Ca) GNMDANDNKEIREELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JQ219968 (variant Ca) GNMDANDNKEIREELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JQ219969 (variant Ca) GNMDANDNKEIREELDNIIKKNSEVSNLQKQVMFNEILIRFENITDHNNEQILISKF
 JQ219970 (variant Cb) GNMDANDDKEIHEELDNIIKKNSEVI*-----
 JQ219971 (variant Cb) GNMDANDDKEIHEELDNIIKKNSEVI*-----

D.melanogaster
 JN786085 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JN786086 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JN786087 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JN786088 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JN786089 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JN786090 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JN786091 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JN786092 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JN786093 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JN786094 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JN786095 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JN786096 (variant Cb) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JN786097 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JN786098 (variant Cb) -----
 JN786099 (variant Cb) -----
 JN786100 (variant Cb) -----
 JN786101 (variant Cb) -----
 JN786102 (variant Cb) -----
 JN786103 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNXITESMLLAKINIIPKFILX
 JN786104 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JQ219965 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JQ219966 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JQ219967 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JQ219968 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JQ219969 (variant Ca) FDTSQNKIYKHLNLQDTLLEEIQYLNRYNINIELFINHLNDITESMLLAKINIIPKFILN
 JQ219970 (variant Cb) -----
 JQ219971 (variant Cb) -----

D.melanogaster
 JN786085 (variant Ca) EQEMDKIKTILEKQNTIVKNEQSIYNFLQMNTLNVEQKIIIFNIKVPIFKQPFHTLARLVP
 EQEIDKIKTILEKQNTIVKNEQSIYNFLQMNTLNVEQKIIIFNIXVPIFKQPFHTLARLVP

JN786086	(variant Ca)	EQEIDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIIFNIKVPIFKQPFHTLARLVP
JN786087	(variant Ca)	EQEIDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIIFNIKVPIFKQPFHTLARLVP
JN786088	(variant Ca)	EQEMDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIIFNIKVPIFKQPFHTLARLVP
JN786089	(variant Ca)	EQEMDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIIFNIKVPIFKQPFHTLARLVP
JN786090	(variant Ca)	EQEIDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIIFNIKVPIFKQPFHTLARLVP
JN786091	(variant Ca)	EQEIDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIIFNIKVPIFKQPFHTLARLVP
JN786092	(variant Ca)	EQEIDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIIFNIKVPIFKQPFHTLARLVP
JN786093	(variant Ca)	EQEIDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIMFNKIVPIFKQPFHTLARLVP
JN786094	(variant Ca)	EQEIDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIIFNIKVPIFKQPFHTLARLVP
JN786095	(variant Ca)	EQEIDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIIFNIKVPIFKQPFHTLARLVP
JN786096	(variant Cb)	-----
JN786097	(variant Ca)	EQEIDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIIFNIKVPIFKQPFHTLARLVP
JN786098	(variant Cb)	-----
JN786099	(variant Cb)	-----
JN786100	(variant Cb)	-----
JN786101	(variant Cb)	-----
JN786102	(variant Cb)	-----
JN786103	(variant Ca)	EQEMDKIKTILEKQNITVKNEQSIYNFLXMNTLNYEQKIIFNIKVPIXKQPFHTLARLVP
JN786104	(variant Ca)	EQEMDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIIFNIKVPIFKQPFYTLARLVP
JQ219965	(variant Ca)	EQEIDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIIFNIKVPIFKQPFHTLARLVP
JQ219966	(variant Ca)	EQEIDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIIFNIKVPIFKQPFHTLARLVP
JQ219967	(variant Ca)	EQEIDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIIFNIKVPIFKQPFHTLARLVP
JQ219968	(variant Ca)	EQEIDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIIFNIKVPIFKQPFHTLARLVP
JQ219969	(variant Ca)	EQEIDKIKTILEKQNITVKNEQSIYNFLQMNTLNYEQKIIFNIKVPIFKQPFHTLARLVP
JQ219970	(variant Cb)	-----
JQ219971	(variant Cb)	-----

D. melanogaster

JN786085	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKFFHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JN786086	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKIHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JN786087	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKIHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JN786088	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKFFHMTRKCPKLDNTFLCDEFYVDTQPNSNTCLEHLLNG
JN786089	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKFFHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JN786090	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKIHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JN786091	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKIHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JN786092	(variant Ca)	LPINNNTYXVITPNYLAYNINNNKIHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JN786093	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKIHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JN786094	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKIHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JN786095	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKIHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JN786096	(variant Cb)	-----
JN786097	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKIHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JN786098	(variant Cb)	-----
JN786099	(variant Cb)	-----
JN786100	(variant Cb)	-----
JN786101	(variant Cb)	-----
JN786102	(variant Cb)	-----
JN786103	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKFFHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JN786104	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKFFHMTRKCPKLDNTFLCDEFYIDTPQNNAXLEHLLNG
JQ219965	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKIHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JQ219966	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKIHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JQ219967	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKIHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JQ219968	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKIHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JQ219969	(variant Ca)	LPINNNTYFVITPNYLAYNINNNKIHMTRKCPKLDNTFLCDEFYVDTQPNNNTCLEHLLNG
JQ219970	(variant Cb)	-----
JQ219971	(variant Cb)	-----

D. melanogaster

JN786085	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQIN
JN786086	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQIN
JN786087	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQIN
JN786088	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQIN
JN786089	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQIN
JN786090	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQIN
JN786091	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQIN
JN786092	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQIN
JN786093	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQIN
JN786094	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQIN
JN786095	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQIN
JN786096	(variant Cb)	-----

JN786097	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQII
JN786098	(variant Cb)	-----
JN786099	(variant Cb)	-----
JN786100	(variant Cb)	-----
JN786101	(variant Cb)	-----
JN786102	(variant Cb)	-----
JN786103	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAFIRYINETIQIN
JN786104	(variant Ca)	ENSSCDVRETGPITDVFEAXRGYIFXFNVNKLKVSLTNGSXLSIMGSAIIRYINETIQIN
JQ219965	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQIN
JQ219966	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQIN
JQ219967	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQIN
JQ219968	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQIN
JQ219969	(variant Ca)	ENSSCDVRETGPITDVFEAERGYIFAFNVNKLKVSLTNGSELSIMGSAIIRYINETIQIN
JQ219970	(variant Cb)	-----
JQ219971	(variant Cb)	-----

D. melanogaster

JN786085	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JN786086	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JN786087	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JN786088	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JN786089	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JN786090	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JN786091	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JN786092	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JN786093	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JN786094	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JN786095	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JN786096	(variant Cb)	-----
JN786097	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JN786098	(variant Cb)	-----
JN786099	(variant Cb)	-----
JN786100	(variant Cb)	-----
JN786101	(variant Cb)	-----
JN786102	(variant Cb)	-----
JN786103	(variant Ca)	GIDYXGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JN786104	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JQ219965	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JQ219966	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JQ219967	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JQ219968	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JQ219969	(variant Ca)	GIDYDGTVDTFPEQTFDFLPPMRKVTRNTTITVLSLEKLHLEATQTMDKILAVHHNTIQH
JQ219970	(variant Cb)	-----
JQ219971	(variant Cb)	-----

D. melanogaster

JN786085	(variant Ca)	TWTLYTLGLVTLFLAVILWLHRRTKHIVHIHEDHHVPIYASSIPSLWPSLRTGGGGVTTTP
JN786086	(variant Ca)	TWTLYTLGLVTLAVILWLHRRTKHIVHIHEDHHVPIYAPSIPSLWPSLRTGGGXSYHP
JN786087	(variant Ca)	TWTLYTLGLVTLAVILWLHRRTKHIVHIHEDHHVPIYAPSIPSLWPSLRTGGGEELPP
JN786088	(variant Ca)	TWTLYTLGLVTLAVILWLHRRTKHIVHIHEDHHVPIYAPSIPSLWPSLRTGGGXSYHP
JN786089	(variant Ca)	TWTLYTLGLVTLAVILWLHRRTKHIVHIHEDHHVPIYAPSIPSLWPSLRTGGGGXPP
JN786090	(variant Ca)	TWTLYTLGLVTLAVILWLHRRTKHIVHIHEDHHVPIYAPFIPSLWPSLRTGGGGVTTTP
JN786091	(variant Ca)	TWTLYTLGLVTLAVILWLHRRTKHIVHIHEDHHVPIYAPSIPSLWPSLRTGGGRSYHP
JN786092	(variant Ca)	TWTLYTLGLVTLAVILWLHRRTKHIVHIHEDHHVPIYAPSIPSLWPSLRTGGGXSYHP
JN786093	(variant Ca)	TWTLYTLGLVTLAVILWLHRRTKHIVHIHEDHHVPIYAPSIPSLWPSLRTGGGRSYXP
JN786094	(variant Ca)	TWTLYTLGLVTLAVILWLHRRTKHIVHIHEDHHVPIYAPSIPSLWPSLRTGGGRSYHP
JN786095	(variant Ca)	T*-----
JN786096	(variant Cb)	-----
JN786097	(variant Ca)	TWTLYTLGLVTLAVILWLHRRTKHIVHIHEDHHVPIYAPSIPSLWPSLRTGGGRSYHP
JN786098	(variant Cb)	-----
JN786099	(variant Cb)	-----
JN786100	(variant Cb)	-----
JN786101	(variant Cb)	-----
JN786102	(variant Cb)	-----
JN786103	(variant Ca)	TWTLYTLGLVTLAVILWLHRRTKHIVHIHEDHHVPIYAPSIPSLWPSLXXXGGGXSTP
JN786104	(variant Ca)	TWTLYTLGLVTLAVILWLHRRTKHIVHIHEDHHVPIYAPSIPSLWPSLXTGGGXEXPP
JQ219965	(variant Ca)	TWTLYTLGLVTLAVILWLHRRTKHIVHIHEDHHVPIYAPSIPSLWPSLRTGGGGXTP
JQ219966	(variant Ca)	TWTLYTLGLVTLAVILWLHRRTKHIVHIHEDHHVPIYAPSIP*-----
JQ219967	(variant Ca)	TWTLYTLGLVTLAVILWLHRRTKHIVHIHEDHHVPIYAPSIPSLWPSLRTGGGXSTP

JQ219968	(variant Ca)	TWTLYTLLGLVTS LAVILWLHRR TKHIVHIHEDHHVPIYAPSIPSLWPSLELGGGEXXTP
JQ219969	(variant Ca)	TWTLYTLLGLVTS LAVILWLHRR TKHIVHIHEDHHVPIYAPSIPSLWPSLRTGGGEXXTP
JQ219970	(variant Cb)	-----
JQ219971	(variant Cb)	-----

D.melanogaster		PP-
JN786085	(variant Ca)	TP*
JN786086	(variant Ca)	HPL
JN786087	(variant Ca)	TP*
JN786088	(variant Ca)	XP*
JN786089	(variant Ca)	PP*
JN786090	(variant Ca)	XP*
JN786091	(variant Ca)	TP*
JN786092	(variant Ca)	XP*
JN786093	(variant Ca)	TP*
JN786094	(variant Ca)	TP*
JN786095	(variant Ca)	---
JN786096	(variant Cb)	---
JN786097	(variant Ca)	TP*
JN786098	(variant Cb)	---
JN786099	(variant Cb)	---
JN786100	(variant Cb)	---
JN786101	(variant Cb)	---
JN786102	(variant Cb)	---
JN786103	(variant Ca)	PP-
JN786104	(variant Ca)	XP-
JQ219965	(variant Ca)	PP-
JQ219966	(variant Ca)	---
JQ219967	(variant Ca)	PP-
JQ219968	(variant Ca)	PP-
JQ219969	(variant Ca)	PP-
JQ219970	(variant Cb)	---
JQ219971	(variant Cb)	---