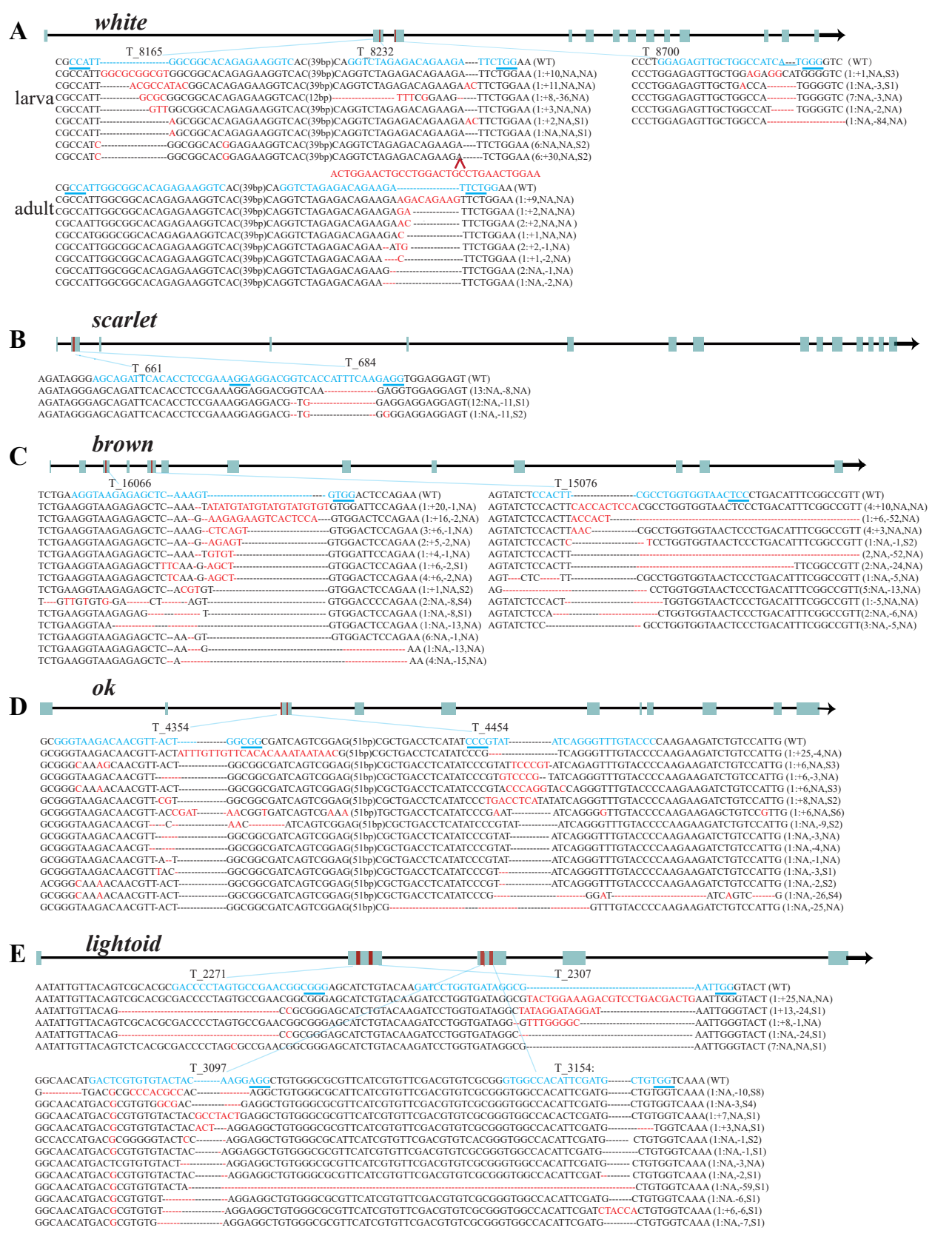
A
white
T_8165
T_8232
T_8700
larva
CGCCATT----------GGCGGCACAGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAAGA----TTCTGGAA (WT)
CGCCATTGGCGCGGCGTGGCGGCACAGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAAGA----TTCTGGAA (1:+10,NA,NA)
CGCCATT---------ACGCCATACGGCACAGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAAGAACTTCTGGAA (1:+11,NA,NA)
CGCCATT----------GCGCGGCGGCACAGAGAAGGTCAC(12bp)---------- TTTCGGAAG------TTCTGGAA (1:+8,-36,NA)
CGCCATT----------GTTGGCGGCACAGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAAGA----TTCTGGAA (1:+3,NA,NA)
CGCCATT----------AGCGGCACAGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAAGAACTTCTGGAA (1:+2,NA,S1)
CGCCATT----------AGCGGCACAGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAAGA----TTCTGGAA (1:NA,NA,S1)
CGCCATC----------GGCGGCACGGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAAGA----TTCTGGAA (6:NA,NA,S2)
CGCCATC----------GGCGGCACGGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAAGA----TCTGGAA (6:+30,NA,S2)
ACTGGAACTGCCTGGACTGCCTGAACTGGAA
CCCTGGAGAGTTGCTGGCCATCA---TGGGGTC（WT）
CCCTGGAGAGTTGCTGGAGAGGCATGGGGTC (1:+1,NA,S3)
CCCTGGAGAGTTGCTGACCA---------TGGGGTC (1:NA,-3,S1)
CCCTGGAGAGTTGCTGGCCA---------TGGGGTC (7:NA,-3,NA)
CCCTGGAGAGTTGCTGGCCAT-------TGGGGTC (1:NA,-2,NA)
CCCTGGAGAGTTGCTGGCCA----------(1:NA,-84,NA)
adult
CGCCATTGGCGGCACAGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAAGA----------TTCTGGAA (WT)
CGCCATTGGCGGCACAGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAAGAAGACAGAAGTTCTGGAA (1:+9,NA,NA)
CGCCATTGGCGGCACAGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAAGA---------- TTCTGGAA (1:+2,NA,NA)
CGCAATTGGCGGCACAGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAAGAAC---------- TTCTGGAA (2:+2,NA,NA)
CGCCATGGGCGGCACAGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAAGAC----------TTCTGGAA (1:+1,NA,NA)
CGCCATTGGCGGCACAGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAA--ATG---------- TTCTGGAA (2:+2,-1,NA)
CGCCATTGGCGGCACAGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAA ----C----------TTCTGGAA (1:+1,-2,NA)
CGCCATTGGCGGCACAGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAAG----------TTCTGGAA (2:NA,-1,NA)
CGCCATTGGCGGCACAGAGAAGGTCAC(39bp)CAGGTCTAGAGACAGAA----------TTCTGGAA (1:NA,-2,NA)
B
scarlet
T_661
T_684
AGATAGGGAGCAGATTCACACCTCCGAAAGGAGGACGGTCACCATTTCAAGAGGTGGAGGAGT (WT)
AGATAGGGAGCAGATTCACACCTCCGAAAGGAGGACGGTCAA----------GAGGTGGAGGAGT (13:NA,-8,NA)
AGATAGGGAGCAGATTCACACCTCCGAAAGGAGGACG--TG----------GAGGAGGAGGAGT(12:NA,-11,S1)
AGATAGGGAGCAGATTCACACCTCCGAAAGGAGGACG--TG----------GGGGAGGAGGAGT (1:NA,-11,S2)
C
brown
T_16066
T_15076
TCTGAAGGTAAGAGAGCTC--AAAGT---------- GTGGACTCCAGAA (WT)
TCTGAAGGTAAGAGAGCTC--AAA--TATATGTATGTATGTATGTGTGTGGATTCCAGAA (1:+20,-1,NA)
TCTGAAGGTAAGAGAGCTC--AA--G--AAGAGAAGTCACTCCA----GTGGACTCCAGAA (1:+16,-2,NA)
TCTGAAGGTAAGAGAGCTC--AAAG--CTCAGT----------GTGGACTCCAGAA (3:+6,-1,NA)
TCTGAAGGTAAGAGAGCTC--AA--G--AGAGT----------GTGGACTCCAGAA (2:+5,-2,NA)
TCTGAAGGTAAGAGAGCTC--AAA--TGTGT----------GTGGATTCCAGAA (1:+4,-1,NA)
TCTGAAGGTAAGAGAGCTTTCAA-G-AGCT----------GTGGACTCCAGAA (1:+6,-2,S1)
TCTGAAGGTAAGAGAGCTCTCAA-G-AGCT----------GTGGACTCCAGAA (4:+6,-2,NA)
TCTGAAGGTAAGAGAGCTC--ACGTGT----------GTGGACTCCAGAA (1:+1,NA,S2)
T----GTTGTGTG-GA-------CT--------AGT---------- GTGGACCCCAGAA (2:NA,-8,S4)
TCTGAAGGTAAGAGAG---------- T----------GTGGACTCCAGAA (1:NA,-8,S1)
TCTGAAGGTAA----------GTGGACTCCAGAA (1:NA,-13,NA)
TCTGAAGGTAAGAGAGCTC--AA--GT----------GTGGACTCCAGAA (6:NA,-1,NA)
TCTGAAGGTAAGAGAGCTC--AA----G---------- AA (1:NA,-13,NA)
TCTGAAGGTAAGAGAGCTC--A---------- AA (4:NA,-15,NA)
AGTATCTCCACTT----------CGCCTGGTGGTAACTCCCTGACATTTCGGCCGTT (WT)
AGTATCTCCACTTCACCACTCCACGCCTGGTGGTAACTCCCTGACATTTCGGCCGTT (4:+10,NA,NA)
AGTATCTCCACTTACCACT---------- (1:+6,-52,NA)
AGTATCTCCACTTAAC----------CGCCTGGTGGTAACTCCCTGACATTTCGGCCGTT (4:+3,NA,NA)
AGTATCTCCACTC---------- TCCTGGTGGTAACTCCCTGACATTTCGGCCGTT (1:NA,-1,S2)
AGTATCTCCACTT---------- (2,NA,-52,NA)
AGTATCTCCACTT----------TTCGGCCGTT (2:NA,-24,NA)
AGT----CTC-------TT----------CGCCTGGTGGTAACTCCCTGACATTTCGGCCGTT (1:NA,-5,NA)
AG---------- CCTGGTGGTAACTCCCTGACATTTCGGCCGTT(5:NA,-13,NA)
AGTATCTCCACT----------TGGTGGTAACTCCCTGACATTTCGGCCGTT (1:-5,NA,NA)
AGTATCTCCA----------CTGGTGGTAACTCCCTGACATTTCGGCCGTT(2:NA,-6,NA)
AGTATCTCC---------- GCCTGGTGGTAACTCCCTGACATTTCGGCCGTT(3:NA,-5,NA)
D
ok
T_4354
T_4454
GCGGGTAAGACAACGTT-ACT----------GGCGGCGATCAGTCGGAG(51bp)CGCTGACCTCATATCCCGTAT----------ATCAGGGTTTGTACCCCAAGAAGATCTGTCCATTG (WT)
GCGGGTAAGACAACGTT-ACTATTTGTTGTTCACACAAATAATAACG(51bp)CGCTGACCTCATATCCCG----------TCAGGGTTTGTACCCCAAGAAGATCTGTCCATTG (1:+25,-4,NA)
GCGGGCAAAGCAACGTT-ACT----------GGCGGCGATCAGTCGGAG(51bp)CGCTGACCTCATATCCCGTATTCCCGT-ATCAGAGTTTGTACCCCAAGAAGATCTGTCCATTG (1:+6,NA,S3)
GCGGGTAAGACAACGTT----------GGCGGCGATCAGTCGGAG(51bp)CGCTGACCTCATATCCCGTGTCCCG-- TATCAGGGTTTGTACCCCAAGAAGATCTGTCCATTG (1:+6,-3,NA)
GCGGGCAAAACAACGTT-ACT----------GGCGGCGATCAGTCGGAG(51bp)CGCTGACCTCATATCCCGTACCCAGGTACCAGGGTTTGTACCCCAAGAAGATCTGTCCATTG (1:+6,NA,S3)
GCGGGTAAGACAACGTT-CGT----------GGCGGCGATCAGTCGGAG(51bp)CGCTGACCTCATATCCCTGACCTCATATATCAGGGTTTGTACCCCAAGAAGATCTGTCCATTG (1:+8,NA,S2)
GCGGGTAAGACAACGTT-ACCGAT--------AACGGTGATCAGTCGAAA (51bp)TGCTGACCTCATATCCCGAAT----------ATCAGGGGTTTGTACCCCAAGAAGAGCTGTCCGTTG (1:+6,NA,S6)
GCGGGTAAGACAACGT-----C----------AAC----------ATCAGTCGGAG(51bp)CGCTGACCTCATATCCCGTAT----------ATCAGGGTTTGTACCCCAAGAAGATCTGTCCATTG (1:NA,-9,S2)
GCGGGTAAGACAACGTT----------GGCGGCGATCAGTCGGAG(51bp)CGCTGACCTCATATCCCGTAT----------ATCAGGGTTTGTACCCCAAGAAGATCTGTCCATTG (1:NA,-3,NA)
GCGGGTAAGACAACGT----------GGCGGCGATCAGTCGGAG(51bp)CGCTGACCTCATATCCCGTAT----------ATCAGGGTTTGTACCCCAAGAAGATCTGTCCATTG (1:NA,-4,NA)
GCGGGTAAGACAACGTT-A--T----------GGCGGCGATCAGTCGGAG(51bp)CGCTGACCTCATATCCCGTAT----------ATCAGGGTTTGTACCCCAAGAAGATCTGTCCATTG (1:NA,-1,NA)
GCGGGTAAGACAACGTTTAC----------GGCGGCGATCAGTCGGAG(51bp)CGCTGACCTCATATCCCGT----------ATCAGGGTTTGTACCCCAAGAAGATCTGTCCATTG (1:NA,-3,S1)
ACGGGCAAAACAACGTT-ACT----------GGCGGCGATCAGTCGGAG(51bp)CGCTGACCTCATATCCCGT----------ATCAGGGTTTGTACCCCAAGAAGATCTGTCCATTG (1:NA,-2,S2)
GCGGGCAAAACAACGTT-ACT----------GGCGGCGATCAGTCGGAG(51bp)CGCTGACCTCATATCCCG----------GGAT----------ATCAGTC-------G (1:NA,-26,S4)
GCGGGTAAGACAACGTT-ACT----------GGCGGCGATCAGTCGGAG(51bp)CG----------GTTTGTACCCCAAGAAGATCTGTCCATTG (1:NA,-25,NA)
E
lightoid
T_2271
T_2307
AATATTGTTACAGTCGCACGCGACCCCTAGTGCCGAACGGCGGGAGCATCTGTACAAGATCCTGGTGATAGGCG----------AATTGGGTACT (WT)
AATATTGTTACAGTCGCACGCGACCCCTAGTGCCGAACGGCGGGAGCATCTGTACAAGATCCTGGTGATAGGCGTACTGGAAAGACGTCCTGACGACTGAATTGGGTACT (1:+25,NA,NA)
AATATTGTTACAG----------CCGCGGGAGCATCTGTACAAGATCCTGGTGATAGGCTATAGGATAGGAT----------AATTGGGTACT (1+13,-24,S1)
AATATTGTTACAGTCGCACGCGACCCCTAGTGCCGAACGGCGGGAGCATCTGTACAAGATCCTGGTGATAGG--GTTTGGGGC----------AATTGGGTACT (1:+8,-1,NA)
AATATTGTTACAG----------CCGCGGGAGCATCTGTACAAGATCCTGGTGATAGGC---------- AATTGGGTACT (1:NA,-24,S1)
AATATTGTTACAGTCTCACGCGACCCCTAGCGCCGAACGGCGGGAGCATCTGTACAAGATCCTGGTGATAGGCG----------AATTGGGTACT (7:NA,NA,S1)
T_3097
T_3154:
GGCAACATGACTCGTGTGTACTAC--------AAGGAGGCTGTGGGCGCGTTCATCGTGTTCGACGTGTCGCGGGTGGCCACATTCGATG-------CTGTGGTCAAA (WT)
G----------TGACGCGCCCACGCCAC----------AGGCTGTGGGCGCATTCATCGTGTTCGACGTGTCGCGGGTGGCCACATTCGATG-------CTGTGGTCAAA (1:NA,-10,S8)
GGCAACATGACGCGTGTGGCGAC----------GAGGCTGTGGGCGCGTTCATCGTGTTCGACGTGTCGCGGGTGGCCACATTCGATG-------CTGTGGTCAAA (1:NA-3,S4)
GGCAACATGACGCGTGTGTACTACGCCTACTGAGGCTGTGGGCGCGTTCATCGTGTTCGACGTGTCGCGGGTGGCCACACTCGATG-------CTGTGGTCAAA(1:+7,NA,S1)
GGCAACATGACGCGTGTGTACTACACT---AGGAGGCTGTGGGCGCGTTCATCGTGTTCGACGTGTCGCGGGTGGCCACATTCGATG----------TGGTCAAA (1:+3,NA,S1)
GCCACCATGACGCGGGGGTACTCC---------AGGAGGCTGTGGGCGCATTCATCGTGTTCGACGTGTCACGGGTGGCCACATTCGATG------- CTGTGGTCAAA (1:NA,-1,S2)
GGCAACATGACGCGTGTGTACTAC--------AGGAGGCTGTGGGCGCGTTCATCGTGTTCGACGTGTCGCGGGTGGCCACATTCGATG----------CTGTGGTCAAA (1:NA,-1,S1)
GGCAACATGACTCGTGTGTGTACT----------AGGAGGCTGTGGGCGCGTTCATCGTGTTCGACGTGTCGCGGGTGGCCACATTCGATG-------CTGTGGTCAAA (1:NA,-3,NA)
GGCAACATGACGCGTGTGTACTAC----------AGGAGGCTGTGGGCGCGTTCATCGTGTTCGACGTGTCGCGGGTGGCCACATTCGAT--------CTGTGGTCAAA (1:NA,-2,S1)
GGCAACATGACGCGTGTGTACTA----------CTGTGGTCAAA (1:+3,NA,-59,S1)
GGCAACATGACGCGTGTGT----------AGGAGGCTGTGGGCGCGTTCATCGTGTTCGACGTGTCGCGGGTGGCCACATTCGATG-------CTGTGGTCAAA (1:NA.-6,S1)
GGCAACATGACGCGTGTGT----------AGGAGGCTGTGGGCGCGTTCATCGTGTTCGACGTGTCGCGGGTGGCCACATCTACCACTGTGGTCAAA (1:+6,-6,S1)
GGCAACATGACGCGTGTG----------AGGAGGCTGTGGGCGCGTTCATCGTGTTCGACGTGTCGCGGGTGGCCACATTCGATG----------CTGTGGTCAAA (1:NA,-7,S1)