

Figure S3

A

Am5-ht2α ATGGAGGG----- 9
Dm5-ht2α ATGGAGATCAAAGCTACTCTGGTCGTGGACCATCGACAGGCACATCAGAAACAGCAACAGCAACAGCAG 70

Am5-ht2α ----- 9
Dm5-ht2α CAGTTGCATCTGCATCTGCATCAGACACAGCAGCAACATTACACTGCGACACTTCAATTGTCGGTGG 140

Am5-ht2α -----GATCTGATCGCCTCTTGACCGGCAACTGACC 42
Dm5-ht2α AGAGGCGGATTTGGCTGGGCCCTCGCCAGCCGTTTATTGACTGCGAAGGCAGCCACACCAACAGCACATCC 210

Am5-ht2α GCGATGTTGCACACCTGCCCTGCAACGACACCTTCCTCCACCGA----- 87
Dm5-ht2α TACACCCCCAGCAGCCTGCCACACAGCAAAAACTCATCGAGGGA-----CCCAACAACACATTCCAGTGTGCAC 280

Am5-ht2α -----TGCCCGGAGGAGTGTGGACTCGCCTCG-- 114
Dm5-ht2α GGCAAGCTATCGACGAAGCGGAGCACAACGCATTCTATAGTTGCGATGGGGAAAGCCCATTGTCTGAAAA 350

Am5-ht2α -----TCGGGATTGATCACATGTGCACGGCC 141
Dm5-ht2α CTGCACTTTGGAGCTGAAGGCGGACTGTTGCGATGGCCGTACGAGGCGTATGAGCACATTGACTGGCA 420

Am5-ht2α GAGAAGGGAAGCTTCGCCTCGTCCATGACTCTGCTCTGCACGCCCTGCGACTACTGCAACTGCGACGTGA 211
Dm5-ht2α ATCAACCGGGCAGCTCAGTGATTATGCTAGTGATAAACTTAGT-----GATAGTTCGAGCTGCGATGAAG 484

Am5-ht2α ACGTGTCTCTGGTCTCAGCGGCTGGAGAGCGTGGAGGGCGTTTCTGTCCAGGTTGCCGAGGTTGCA 281
Dm5-ht2α GAGGCATGGTCTTCAATGTAAGCTGGGTGAGGCCCATGAACATTGCTTTGTCTATTGCAACAACCTCGA 554

Am5-ht2α CTCAAC-----GAGACCGATTTCCCGATCAG+++----- 309
Dm5-ht2α CAGGGAGCCACTGCGGGAGGTGGGAAGCGCGGAGGAGAGCTTCTCAACGACAGCCTTCTGCAGGCCTTT 624

Am5-ht2α ----- 309
Dm5-ht2α CAAATCGAAGTGGGCGCAGAGCGGATGGACTCTGGTCTTCTTAATCTAAGCGAGCTAATGGAGCCCG 694

Am5-ht2α -----ATATGGAGTGCACGGGACT-----ACGGAGAACCGGACTAC 347
Dm5-ht2α ATCACGGATTCCTGGGCATCATGAATGTCAACAACACTAGCTTAGACATGTTTTTCCGAACCTTAGAGC 764

Am5-ht2α GGAGGATCTGACTATCTCTGCTCGCACAGGCGGAAGGGCTTGAATCCGGCTGGAGCAGA----- 408
Dm5-ht2α CCTGAACACGACTCCACGGCTCGACTGCAGACATGGCCACCGAGTTCCGGGTAAACAAGAGCTTTCTG 834

Am5-ht2α -----GGCGACGTCTCGACTGGAACTTCTCTTCGTTCGTGATTTATCCTTGGCGGTGGCCTGG 469
Dm5-ht2α GACTACAGTCCCATGGCTACGATTTCTATTTCTGTTTCGTGGTGTCTTTATCTTGGCGGTGGCCTGG 904

Am5-ht2α GGAACATACTCTCTGTCTCGCTGTGGGCTCGATAAAAGGCTGCACAACGTACCAATTACTTCTCTTT 539
Dm5-ht2α GTAATATCCTTGTGTGCCTAGCCCTTGCCTTGGACCGGAACCTGCAGAATGTGACTAACTACTTCTCTTT 974

Am5-ht2α GTCTCTCGGTTGGCCGATTTACTCGTCAGCCTGTTGCTCATGCCCTCGGGCGGATCCAGGCTTCTTG 609
Dm5-ht2α TTCCCTGGCTATAGCCGATCTCTGGTCAGTTGTTTGTGATGCCCATGGGCGGATAACAGCTTTTTTG 1044

Am5-ht2α G+++GATACTGGCCATTCCGAGTGGTGTGGTGAACGTGTACGTGACGTGCGATGTGCTGGCTTGTTCGG 676
Dm5-ht2α G+++GGTATGGCCACTTGGCTTTACCTGGTGAACATTTATGTGACGTGTGACGTACTGGCTGCTCAT 1111

Am5-ht2α CGAGCATAATGCACATGTGCTTCATCTCGTTGGGCGGATCTCGGCATCCGGAATCCITTTGGGACGAG 746
Dm5-ht2α CCAGTATATGACACATGTGCTTCATCGGTTTGGGACGCTATATGGGAATAAGAAATCCATTGGGCTCGAG 1181

Am5-ht2α GCACACGTCCACAAACGGATGTCGGCTTCAAGATAGCGGCTGTGTGGTTGCTCGCCATGTTGGTCTCC 816
Dm5-ht2α GCATCGATCTACGAAACGATGACTGGTATAAAGATAGCCATTGTTGGGTAATGGCCATGATGGTATCC 1251

Am5-ht2α AGCTCGATCACGTTTTGG+++GCATAATAAATCCTCTAAACATCATGCCACGGCGGGAGCGTGCCTGA 883
Dm5-ht2α AGTTCAATAACCGTCTTTG+++CTCTGGTCAATGAGAAGAGCATTAATGCCCGAGCCTAACATATGCCTTA 1318

Am5-ht2α TCAACAACAGAGGTTTTTTCGTGTTGGCTCTCTGATCGCCTTCTACATACCCATGATCGTTCATGGTAGC 953
Dm5-ht2α TCAACAATCGCGCTTTTTTCGTGTTGGATCTCTGGTAGCTTTTATATACCCATGCTGATGATGGTATC 1388

Am5-ht2α CACTTACATTCGACGGTGCAGCTGCTCAGGCAAAAAGCCCGTTTTCATCGCGGAACATCCTGAACGAGAT 1023
Dm5-ht2α CAGATACGCATGACGATTCCCTCTCTCCGGAAGAAAGCGCGATTTGCCGCGGACACCCGGAAGTGA 1458

Am5-ht2α CAATTCCGAAG---GCTGGGAGC----- 1044
Dm5-ht2α CTTTTCGCAG+++GTTGGGTGGACGCTTACCCTAAGGCCGAGCACAGCCAGCAGCAGTTGCAGATGT 1525

Am5-ht2α -----AGCATATTTCTCGACGAG 1061
Dm5-ht2α TCAGTAGCTTTTCTGGCAGCAATAACAAATTCCTATCAATGGGCGACGGCAATCCCAACTTCAACACTGA 1595

Am5-ht2α G-----GCTTCCTCCACCGCCACCTCGACCGTGGAAACCGCCACCCCT----- 1104
Dm5-ht2α AGGAGAGATGGAGGAGGGTGGAGCTCCTAGCAGAAAGGAGTGGCGTAGAGCCCGCCGAACGACCTTTGATG 1665

Am5-ht2α -----TCGTCGTCGCGG-----TATACGTGGAGG-----ACTTCCG 1135
Dm5-ht2α CAACAGCGAACGGCGAGCAGCAGGAGCATGGGCACGGTTAGTTTCCGTAATGTCGTGAACGGGACTAGCG 1735

Am5-ht2α GCGGTGTCGGAAGCGACAG+++TFTAACCAAATTAACCGCGGAGGCTCTGTGCCGT----- 1188
Dm5-ht2α GACCCGCGGGAAGTGGGCG---CAGGACGACAGGCACTGCCCAAGCAGCAGCTTCCGTTCTCTGGCGCCGG 1802

Am5-ht2α ----- 1188
Dm5-ht2α CATCCTTCGGCACTCGTCGTCGCTCCCGCCTCGAGCTGCCACTCCACCAGCAGTCGCGTTTCGAGCTCC 1872

Am5-ht2α -----CGCAAACATAAC----- 1200
Dm5-ht2α TTCTGGCGCAAACACGGCGGCTATCCAAACCTAATGGACAG+++ACTGGCCATACATTTAAGACTTTCTT 1939

Am5-ht2α -----AGGTGCAGGGGGGCAAGGTCGCGCGCAAAGTCTCAACCGCAGTTGAA 1247
Dm5-ht2α TGGTACCACCCAGTAGCCATCCAATCGACGGGCATCTGTGCGTCTCACCATCTCCAGCCACAAATGGG 2009

Am5-ht2α TTTCCGCGTGAAACGGG----- 1263
Dm5-ht2α TTTACCCGACCAATGTAGGTGGAATGGAGGTAGAACTGTTGGAGCGACGGAGGTGGGGGCTGGTGGCAAT 2079

Am5-ht2α -----GCGAGTAACCGGC CGGAACCGGGCCAGGACTGGCCAGCAAAG 1315
Dm5-ht2α GGCTCATCAGCCGGCAGAAACGAGCAACTCATCTTTGGAGGCACGAGCTTGATGAAAATCGCAACCATCC 2149

Am5-ht2α TGGATCAGGCGACGCAAACGCCGGAGAATATCGGC----- 1350
Dm5-ht2α ACGGACCGGATACTGAACCAAAGTCAGGCAGCTGGAGGCAATCACATGGTGCAAAAAGTGAAGCCGACGGC 2219

Am5-ht2α -----CGTGAAACAAGGAATTTCACTCTGAAGGCTTTGAACTCCAATTAAC---GTCAGTCCC 1407
Dm5-ht2α TTTAAAACCGGAAGAACCAACGCAACAAAGTCGGCCCTTTAATTTGCTTCAACCGCGTTGCGACG 2289

Am5-ht2α AACACCCTGAATCTCAG+++GTTTCTCCCGGTAGAAACGAAGAGGATCGTTGGCCCGCAACGCCGTTG 1474
Dm5-ht2α CCACCCTCAATTTGCG+++TTTTCTAAACAAATCCAGTAACGAAACAGCTTGTGGCCCAATGCCGTTG 2356

Am5-ht2α CAACGGAGCAGAAAGCCAGCAAGGTGTTGGGCTGGTTTTCTTCATGTTTCGTGCTCTGCTGGGCCCCGTT 1544
Dm5-ht2α CTACGGAGCAGAAAGCCACCAAGGTGCTCGGATGGGTGTTTTCACCTTCGTTCTGTGCTGGTCCCTTT 2426

Am5-ht2α CTTTCTACTAAACATATTTTTCGGCGGTGCCCGAATGCTCGGTCCCGGTACACGTGGTCAACGTCTGT 1614
Dm5-ht2α CTTTCTTGAACATATATTTTTCGGCATGCCCGAGTGCCAAATGTCGGGAGCACGTGGTGAATACCTGC 2496

Am5-ht2α CTGTGGCTCGGATACGTGTCTCCACGATCAATCCGGTCATCTACACCATTTCAATAGAACGTTTCAGGG 1684
Dm5-ht2α CTTTGGCTTGGCTATGTCTCTCCACGATCAATCCCATCATCTACACCATATTTCAATCGCACGTTCCGGG 2566

Am5-ht2α CTGGGTTTATCAGATTGTTGAAGTGAAGTGTTCAG+++GTCAGCAAGGCCGAGGCATCGTTCAAGTAC 1751
Dm5-ht2α CGGCCTTTATCCCTGCTCAAGTGAACGTCGAAACG---GTGA 2607

Am5-ht2α GGAGAGTGGACGAAACGCGATGAGCCTGTGCACCCGACCGCGTGCCATTGGTCATTAGTCTTCAGGGT 1821
Am5-ht2α ACGCCGTTGTTGACGCCAACACCGAATCCGACGCGGCCACGCCGCGCTCGGCAACCTCCTACGTGACGA 1891
Am5-ht2α TGATGCATCGCAGCCAACCTCCCTTTACCGTGACACTTTTCATCAACACGAGCAGCATCAGAATTTGTTG 1961
Am5-ht2α A 1962

B

Am5-ht2β ATGATCGACTCGTCGACGACGACGATCGATCGCGCGGATCCTCACGAGGCCGTGTCGACAGCTGTACC 70
CG42796 ATGGAAGAGGATGTGTATGCCTCGCTAGGTGCCTACAACGACAGCGGTGGCGACATTGGAGCAGCTCGG 70

Am5-ht2β ACGATCTTTTGTCTTTGGCGAACGAC-----AGCAGCGCGCTTTGCAACGGATCAGGAGGATTGGACGT 134
CG42796 ACGACCTGGTCTGTGCGGAGGAGGATGAGACGCAGCGAACGACTGCTAATGCCACAGTCGGCATAATCA 140

Am5-ht2β ACTGAACGACACC-----GTCCATCTAGAGATTGACCCGGTGAAACGGACACGGTTGGACGTGACCGGA 198
CG42796 ACTGCATGTGGCCAGGTGGAATCCACCGGCAATCGACCATCAGCGCGACTTCGAGGACGTACCCTTC 210

Am5-ht2β ---TTGAACAATTTGGTGGGCGATGCTCGCCTTGCTCCTGGTGTGGGCACAGCAGCCGGCAATATTTGG 265
CG42796 GATGCCAACAACTACTGGGCCCTATTTGGCCCTGCTCCTCGTCTGGGAACAGCGCCGGGAAACATCCTTG 280

Am5-ht2β TCTGCTTGGCCATGCCCAGGAGAGGAGATGTCAGAACGTCACCAATATTTCCCTGATGAGCTTGGCCAT 335
CG42796 TCTGCTTGGCCATCGCCTGGGAGCGCCGGCTGCAGAAATGTACCAACTACTTCCCTATGTTCGCTGGCCAT 350

Am5-ht2β CACGGATCTGCTCGTAGCCGTGCTGTAAATGCCCTTGGAACTACTACTTTGGTACAGAG+++GATATTT 402
CG42796 CACCGATCTCATGGTCCCGTGTCTGGTATGCCCTGGGCATCCTTACGCTGGTCAAAG+++GCTACTTT 417

Am5-ht2β CCTCTGCCGTCACTTTACTGCCTCGCTTGGATCTGCCTGGATGTATTATTATGCACAGCGAGCATCATGC 472
CG42796 CCTTTGGGCTCGAGCACTGCCTCACCTGGATCTGCCTGGATGTACTCTTCTGCACGGCCAGCATCATGC 487

Am5-ht2β ACTTGTGCACCATAAGCGTGGACCGATACCTCAGTCTACGGTATCCATGAAATTCGGTTCGGAATAAGAC 542
CG42796 ACCTGTGCACCATCTCCGTGGACAGATATTTATCGCTACGATACCAATGCGATTGGCCGCAATAAAAC 557

Am5-ht2β GAGGCGGCGGTCATGTTGAAATCAGCTTCGTCTGGGTTCTCAGCATCGCGATGAGTTTGCCACTGAGT 612
CG42796 ACGTCGGCGGTCACCTCTCAAAATGTTTTCTGTTGGCTTCTCAGCATCGCCATGAGCTTGCCCTTGAGC 627

Am5-ht2β CTGATGTACTCAAG+++GAGGACGACTCGGTGCTGGTGCACGGTGCCTGTCAAATACCGGATCCCTGT 679
CG42796 TTGATGTACTCAAG+++AATCAGCCCTCGGTGCTGGTGAATGGAACITGCCAGATACCGGATCCCGTGT 694

Am5-ht2β ACAAGTTGATCGGCAGCATAATCTGCTTTTACATAACCGTGGGCGTGATGCTGCTTACGTACCGGTGAC 749
CG42796 ACAAGCTGGTCCGCTCATTGTATGCTTCTACATTCACCTGGGCGTGATGCTGCTGACATATTGCCGTGAC 764

Am5-ht2β AATGACATTTGCTGGCGAAACAGCAAAGAAATATAGGACGA-----ACTACTGGT 798
CG42796 CTTCCGACTTTTGGCCCGGCAGCGCCAGAATCTGGTGGTGGACAGCAGACGGCGCGGCCACTCCCGGA 834

Am5-ht2β TGGTCTCCGGATGGCTGGGTGGCCCGCAGGGCCATCTTCGGGAG+++GCCTGGACAGGAAAGGCACGT 865
CG42796 TGGCCAGTGGATGGCTCGGC-----CAGGCACG-----GCCTTGG+++AACGACGATGCACCT 886

Am5-ht2β GGAAAGCATTTCTGTTGAGCAAAAACCCGGCCGGAAGCGGCGGTACAACCGAGCACACTTCCGGCAATC 935
CG42796 ---GCGGCGCCTTTTGAACCGGGTCCAGGTAACGCCTCCTCGGTGCTGCACGCACACTCGGGCAATTC 953

Am5-ht2β GACAGACACCGAGCTGACGACACTGGACACTCACGAACTCTGGCTTCCGGAAAGC-----GAG 993
CG42796 AACGGATACGGATCTCAGCACTTTGGACAACACGAGCTCTGGCTGCCGATTCCAG+++CATAAAGGAG 1020

Am5-ht2β CCGCCGCCCTCGCCATGTTCCGCCCTTACGCTTTCGGCGCAGAGATGCTCAAGTTGTCGAGGGGCTGG 1063
CG42796 CCAAAGCCCAAGACCATGACGCCCTTGCATCAGTTCGGTGCAGAGATGCTGAAACTATCCGAGGCCTGG 1090

Am5-ht2β AGGGTATCACCCAGCCCT-----GGAAGCCCTATGGGC----- 1095
CG42796 AGTCGGTGGCTCGTTCATCCACCACCGGCTCACCAACCAAAATCCGAATTTTCCCTATCGAACCACCTGCA 1160

Am5-ht2β -----ACACCAGATCCACGCTCAACAACCTCGATCCAGCAACATCAGCATCAGCAACAG 1149
CG42796 GCTGCAGTACCCAGCAGCCACAGCGATATGCGCCACCACCAGCAGTCCACCAACCAACCAACAG 1230

Am5-ht2β TCGCACAGGTGACGCTTCCGTACGG+++GAGCGGGAGAGCGGGGG----- 1194
CG42796 CAGCATCCGGCCGGAGTTTACACCA---GCAGCATCGCCAAAAGGTCGCCACGGAACCACAGTTCTGG 1297

Am5-ht2β -----AGCAGCGCTTCCGG 1208
CG42796 GTCTGTCCACCACCAGCTGGGCATCGAGCGGGAGAGACCAGGAATTCCTGGCCAGCAGTGCATGGG 1367

Am5-ht2β TTCAGGACGAGCTCTC---GATCCAAGAAGATCTCAGCTCGCCAACGCCGTGAAACATCCAGCTGGA 1275
CG42796 CCGCGAACAGAGCGATGG+++GACTCTTTTACAGCTTTCCCAACGATTGCGAGCTATAAAAAGCCACGA 1434

Am5-ht2β CCGCGCTCACGTTCAAC-----GAGGCTCACCTTGAGCGGACCG 1315
CG42796 ACAGCTTCGTGAGCTGTTTCCCTGGACGTGAGAAACGTGCCGGGCATGAGGACGCAGACGAGGATGTGAAA 1504

Am5-ht2β ACTCGGGATCGCCGAAGACGCCTAGGAAGCGATCGTT CAGCTTCACGAGCAGCCCGTGTTCGGGCGTGG 1385
CG42796 CGCCACGTC AACCGTGCGCCACAAAGCGCCATAA CAGTCTGCCAAGAACGCACTCTATCCGCGACA 1574

Am5-ht2β CTCCTCCGTTTCAGGAAGAGCTCCTCGAAC-----GAGGAAACGC CGCAGAGCCGGAAGTCCG 1443
CG42796 CACCACTGTACAGAGAGCCTCGATGACGACGACGACGAGGAGGAGCAGAGCGCGCAACAGAAGCATCAG 1644

Am5-ht2β AGCGACAAA----- 1452
CG42796 CAGACGAAAGTCGAAGATCTGCCACTCGGACACTGAGCTAGATCCTCCGAGAAGCGAAGCAGTGCCACA 1714

Am5-ht2β -----CAGGAGGGTGAGATCGCCCTCCGCGCCCGTGCACGTGCCATACTTCGGCGA 1505
CG42796 TAGCCGGGCAGAATCATCAGTCGCACTACTTGCAGCTGCCCTCGGTTTGCACCTTCCGTAITTTGGGGA 1784

Am5-ht2β G-----TCG 1509
CG42796 CAGACCGCTCCAGAATTGTGTGAAATCGGCGGAGGTGAAGATTATTTTCGTCCGCTTCCGAGTGACCACC 1854

Am5-ht2β TCGTCCGAGGAGACCCCCGCCCAA CCTTCT---ACCGAGATCGTGATCGTTTCCAGC----- 1563
CG42796 ACCACGACCGCGGTGAGCAGTTCGCCAGCGAGATGGAGCTACTCATGTGCAGTAGTGGCAATAAAAAGT 1924

Am5-ht2β -----GA 1565
CG42796 CATTGACCTCCAGTGTGAGTGCCGGCATAACAGGTGGACCGGCAGGAGCGGCTCCAGCCACAGTTGGCTC 1994

Am5-ht2β CACGATGAGGCCGATCTCGGGCAA GAACCTCAGGGCGGCTTTCCTGGGAAGGAGCAAC---AGCGGCAGG 1632
CG42796 CAGCCTCAGTCCACACTCTCTCAAAATCAGGCGAGCTCGCTGACAGTTTCAGAGCGATGGTAGTGGGTAC 2064

Am5-ht2β ATGGAGGGCAGCAGAAGC-----TACGAGCTGAATTCCGTTGTCA 1672
CG42796 TTGGCTGCTCCGGAACTCCTTGTCTTGCCGACGAAAGTTGAGCATCTCAAAGACCGCCTCGGTGCTCA 2134

Am5-ht2β CCTCGAGAGGG-----TCACGAGAGGGTCTAGTTTGGGAC+++GAAGC----- 1713
CG42796 CGTGGGATTCAAGTCGTCACTGTCGGCGGGG CAGCAGTTTGGCG---GAGTGCGAACATCCCTGCTGTT 2201

Am5-ht2β -----ACGAGGAC CAGCCTGTGACGTCGAGGCCAGCCCCGATCCGCGCGCGGCAGCATGCTGACC 1776
CG42796 GACGCCCACCAAAACAGCGACCACCTCAACTCATCCACACCGTTGAGAAATCGGCACCTTGAGGAGT 2271

Am5-ht2β CACAAC-----GGGGCCGCGAGCCTCGGCTCGAGCAAAGCAGCAATTCCGTCGTCCCGT 1831
CG42796 CACCA GAATATGAACTACCAGGAGCGGGCGAATGTGGTGGCAAGACCAGGACGCAACATCCTCACCT 2341

Am5-ht2β GCCCCACAGATACCAAACGACACTACG CAGCCACCACTCGAGGACGAGCAGCGTGTGTCCCGAACAG 1901
CG42796 GCATGTTGCAGCGTCAGCAGACGTCGATCTCATCACTCGCGAACTCAGCGTGATCTCCAGAACTC 2411

Am5-ht2β CTCGCGCCACGTCGGATCATCAGGCTCGAGCAGAAGGCCACCAAGGTGCTCGGGTGGTGTTCCTT CAGG 1971
CG42796 CTCGCGCCACGCAAGGATCATCAGGCTCGAGCAGAAGGCCACCAAGGTGCTGGCAGTGGTGTTCCTT CAGG 2481

Am5-ht2β TTCGT CATACTGTGGGCGCCGTTCTTCGTTCTCAACTGATCCAGCCGTGTGCCCAACTGCGAGAGAC 2041
CG42796 TTCGTAATCCTCTGGTCCGCAATCTTCGTCCTCAATCTCCTGCCACGGTGTGCCGGAGTGCAGGAAC 2551

Am5-ht2β AAATCGACCACAAGATATTTCGACCTGGCCACCTGGCTGGGCTACGC CAGCTCCATGGTGAACCCCATCTT 2111
CG42796 GAATTAGCCACTGGGTCTTTCGACCTGGTCACCTGGCTGGGCTACGCTAGCTCCATGGTGAACCCCATCTT 2621

Am5-ht2β CTACACCATCTTCAACAAGGTGTT CAGACAAGCGTTCAAGAAGGTGTGCTCTGCAGGTACAGGAAT--- 2178
CG42796 CTACACCATCTTCAACAAGGTGTTCCGGCAGGCGTTCAAGAAGGTCTGCTGTGCCGCTATTTCAGCAGC 2691

Am5-ht2β CAAA CGTGGAGACCGTCCAGGTAG 2202
CG42796 AGTGCCTGGCGACCGAGCAGATAA 2715

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