*m*DRD1A VersaClone cDNA

Catalog Number: RDC3729

Specifications:

Gene:	*m*Drd1
Accession:	NP_034206.1
Insert size:	1354bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

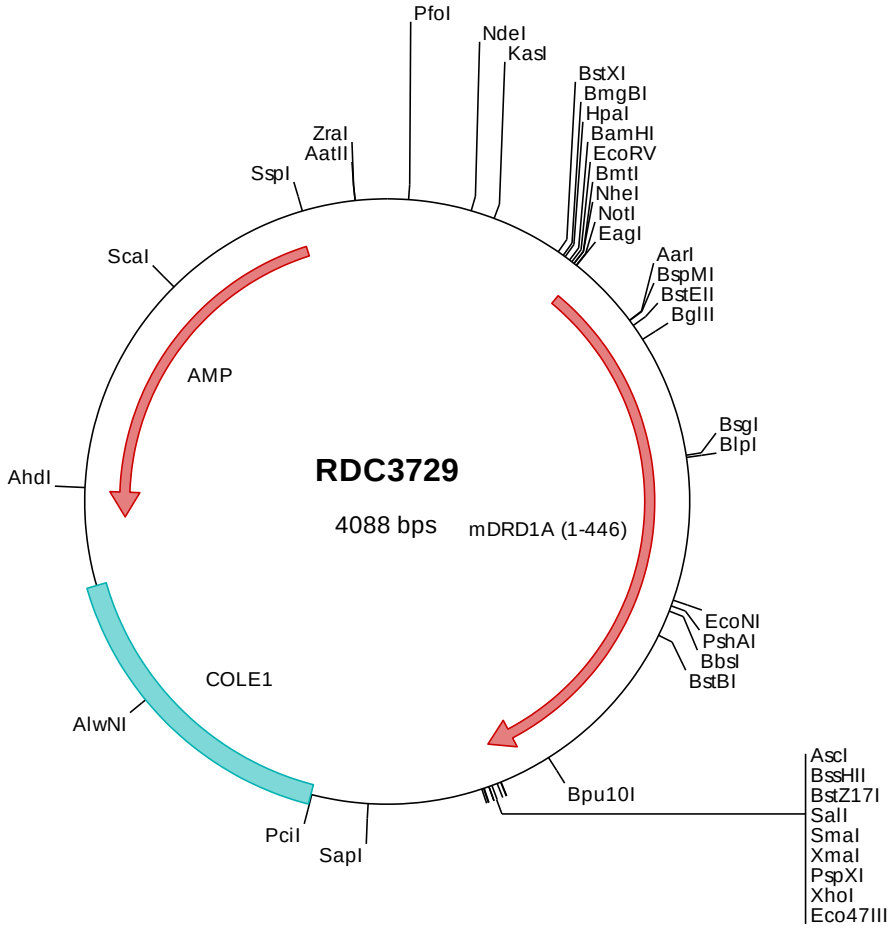
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*m*Dopamine D1A R/DRD1A cDNA Plasmid

Drd1 dopamine receptor D1
[*Mus musculus* (house mouse)]

Also known as: Drd-1; Drd1a; Gpcr15; C030036C15Rik

Summary:
DRD1 is the D1 subtype of the dopamine receptor. The D1 subtype is the most abundant dopamine receptor in the central nervous system. This G-protein coupled receptor stimulates adenylyl cyclase and activates cyclic AMP-dependent protein kinases. D1 receptors regulate neuronal growth and development, mediate some behavioral responses, and modulate dopamine receptor D2-mediated events.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

bio-techne®

R&D SYSTEMS

> RDC3729 Plasmid DNA Sequence

```
   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggctccta acacttctac catggatgag actggcctgc cagtggagag
 501  ggacttctcc tttcgcatcc tcacagcctg ttttctgtcc ctgcttatcc tgtccactct cttagggaat acccttgtct gtgccgctgt catcaggttt
 601  cgacacctgc ggtccaaggt gaccaacttc tttgtcatct ctttagctgt gtcagatctc ttggtggctg tcttggtcat gccctggaaa gctgtggctg
 701  agattgctgg cttttggccc tttgggtcct tttgtaacat ttgggtagcc tttgacatca tgtgctccac ggcatccatc cttaacctct gtgtgatcag
 801  cgtggacagg tattgggcta tctccagccc tttccagtat gagaggaaga tgactccgaa ggcagccttc atcctgatta gcgtagcatg gactttgtct
 901  gttctcatat ccttcattcc agtgcagcta agctggcaca aggcaaaacc tacatggccc ttggatggca attttacttc cctggaagat gccgaggatg
1001  acaactgtga cacgaggttg agcaggacat acgccatttc atcctccctc ataagctttt acatccccgt agccattatg atcgtcactt acaccagtat
1101  ctacaggatt gcccagaagc aaatccggcg catctcagct ttggagaggg cagcagtcca tgccaagaac tgccagacca ccacaggtaa tggaaaccct
1201  gtcgaatgct ctcaatcaga aagttccttt aagatgtcct ttaagaggga gactaaagtc ctgaagacac tgtctgtgat catgggggta ttcgtgtgct
1301  gctggctccc tttcttcatt tcgaactgta tggtgccctt ctgtggctct gaggagaccc agccattctg cattgattcc atcaccttcg atgtatttgt
1401  gtggtttggc tgggcgaatt cctccctgaa ccccattatt tatgctttta atgccgattt tcagaaggca ttctcgaccc tcttaggatg ctatagactc
1501  tgccctacaa cgaataatgc catagagact gtaagcatca acaacaacgg ggctgtgatg ttttccagcc accatgagcc ccgaggctcc atctccaagg
1601  actgtaatct ggtttacctg atccctcatg ctgtgggctc ctctgaggac ctgaagaggg aggaggccgg tggcatacct aagccactgg agaagctgtc
1701  cccggcctta tcggtcatat tggactatga caccgatgtc tctctagaaa agatccaacc cgttacccac agcggacagc attcaaccta aaggcgcgcc
1801  agtatactct agagtcgaca cccggggaat tcctcgagcg ctcgtctcta gcttggcgta atcatggtca tagctgtttc ctgtgtgaaa ttgttatccg
1901  ctcacaattc cacacaacat acgagccgga agcataaagt gtaaagcctg gggtgcctaa tgagtgagct aactcacatt aattgcgttg cgctcactgc
2001  ccgctttcca gtcgggaaac ctgtcgtgcc agctgcatta atgaatcggc caacgcgcgg ggagaggcgg tttgcgtatt gggcgctctt ccgcttcctc
2101  gctcactgac tcgctgcgct cggtcgttcg gctgcggcga gcggtatcag ctcactcaaa ggcggtaata cggttatcca cagaatcagg ggataacgca
2201  ggaaagaaca tgtgagcaaa aggccagcaa aaggccagga accgtaaaaa ggccgcgttg ctggcgtttt tccataggct ccgccccct gacgagcatc
2301  acaaaaatcg acgctcaagt cagaggtggc gaaacccgac aggactataa agataccagg cgtttccccc tggaagctcc ctcgtgcgct ctcctgttcc
2401  gaccctgccg cttaccggat acctgtccgc ctttctccct tcgggaagcg tggcgctttc tcaatgctca cgctgtaggt atctcagttc ggtgtaggtc
2501  gttcgctcca agctgggctg tgtgcacgaa ccccccgttc agcccgaccg ctgcgcctta tccggtaact atcgtcttga gtccaacccg gtaagacacg
2601  acttatcgcc actggcagca gccactggta acaggattag cagagcgagg tatgtaggcg gtgctacaga gttcttgaag tggtggccta actacggcta
2701  cactagaagg acagtatttg gtatctgcgc tctgctgaag ccagttacct tcggaaaaag agttggtagc tcttgatccg gcaaacaaac caccgctggt
2801  agcggtggtt tttttgtttg caagcagcag attacgcgca gaaaaaaagg atctcaagaa gatcctttga tcttttctac ggggtctgac gctcagtgga
2901  acgaaaactc acgttaaggg attttggtca tgagattatc aaaaaggatc ttcacctaga tccttttaaa ttaaaaatga agttttaaat caatctaaag
3001  tatatatgag taaacttggt ctgacagtta ccaatgctta atcagtgagg cacctatctc agcgatctgt ctatttcgtt catccatagt tgcctgactc
3101  cccgtcgtgt agataactac gatacgggag ggcttaccat ctggccccag tgctgcaatg ataccgcgag acccacgctc accggctcca gatttatcag
3201  caataaacca gccagccgga agggccgagc gcagaagtgg tcctgcaact ttatccgcct ccatccagtc tattaattgt tgccgggaag ctagagtaag
3301  tagttcgcca gttaatagtt tgcgcaacgt tgttgccatt gctacaggca tcgtggtgtc acgctcgtcg tttggtatgg cttcattcag ctccggttcc
3401  caacgatcaa ggcgagttac atgatccccc atgttgtgca aaaaagcggt tagctccttc ggtcctccga tcgttgtcag aagtaagttg gccgcagtgt
3501  tatcactcat ggttatggca gcactgcata attctcttac tgtcatgcca tccgtaagat gcttttctgt gactggtgag tactcaacca agtcattctg
3601  agaatagtgt atgcggcgac cgagttgctc ttgcccggcg tcaatacggg ataataccgc gccacatagc agaactttaa aagtgctcat cattggaaaa
3701  cgttcttcgg ggcgaaaact ctcaaggatc ttaccgctgt tgagatccag ttcgatgtaa cccactcgtg cacccaactg atcttcagca tcttttactt
3801  tcaccagcgt ttctgggtga gcaaaaacag gaaggcaaaa tgccgcaaaa aagggaataa gggcgacacg gaaatgttga atactcatac tcttcctttt
3901  tcaatattat tgaagcattt atcagggtta ttgtctcatg agcggataca tatttgaatg tatttagaaa aataaacaaa taggggttcc gcgcacattt
4001  ccccgaaaag tgccacctga cgtctaagaa accattatta tcatgacatt aacctataaa aataggcgta tcacgaggcc ctttcgtc
```

> RDC3729 Translated Insert Sequence

```
   1  mapntstmde tglpverdfs friltacfls llilstllgn tlvcaavirf rhlrskvtnf fvislavsdl lvavlvmpwk avaeiagfwp fgsfcniwva
 101  fdimcstasi lnlcvisvdr ywaisspfqy erkmtpkaaf ilisvawtls vlisfipvql swhkakptwp ldgnftsled aeddncdtrl srtyaisssl
 201  isfyipvaim ivtytsiyri aqkqirrisa leraavhakn cqtttgngnp vecsqsessf kmsfkretkv lktlsvimgv fvccwlpffi sncmvpfcgs
 301  eetqpfcids itfdvfvwfg wansslnpii yafnadfqka fstllgcyrl cpttnnaiet vsinnngavm fsshheprgs iskdcnlvyl iphavgssed
 401  lkreeaggip kpleklspal svildydtdv slekiqpvth sgqhst
```