*h*mGluR6 VersaClone cDNA

Catalog Number: RDC1008

Specifications:

Gene:	*h*GRM6
Accession:	AAB82068
Insert size:	2647bp
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

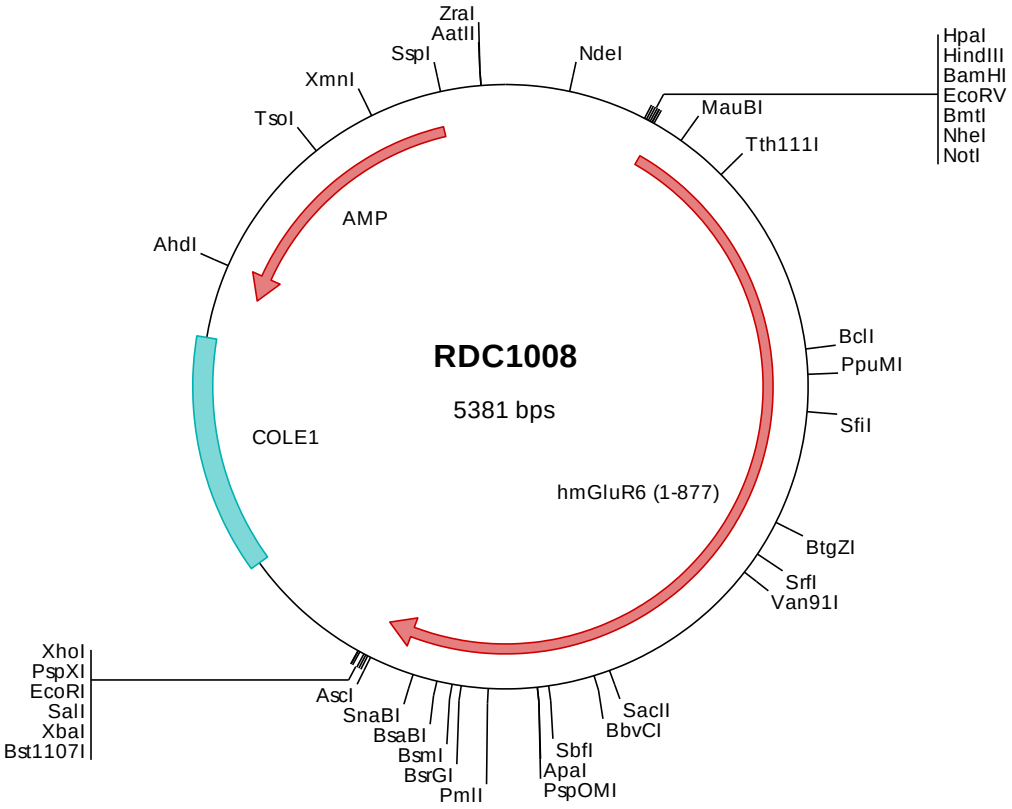
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*mGluR6 cDNA Plasmid

GRM6 glutamate receptor, metabotropic 6 [*Homo sapiens* (human)]

Also known as: mGlu6; CSNB1B; GPRC1F; MGLUR6

Summary:
MGLUR6 is a G protein-coupled receptor for glutamate and signaling inhibits adenylate cyclase activity, decreasing the formation of cAMP. L-glutamate is the major excitatory neurotransmitter in the central nervous system and activates both ionotropic and metabotropic glutamate receptors. Glutamatergic neurotransmission is involved in most aspects of normal brain function and can be perturbed in many neuropathologic conditions. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC1008 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 atggctcgtc cacggagagc tcgggagccg ctgctcgtgg cgctgctgcc
 501  gctggcgtgg ctggcgcagg cgggcctggc gcgcgcggcg ggctctgtgc gcctggcggg cggcctgacg ctgggcggcc tgttcccggt gcacgcgcgg
 601  ggcgcggcgg gccgggcgtg cgggccgctg aagaaggagc agggcgtgca ccggctggag gccatgctgt acgcgctgga ccgcgtcaac gccgaccccg
 701  agctgctgcc cggcgtgcgc ctgggcgcgc ggctgctgga cacctgctcg cgggacacct acgcgctgga gcaggcgctg agcttcgtgc aggcgctgat
 801  ccgtggccgt ggcgacggcg acgaggtggg cgtgcgctgc ccgggaggcg tccctccgct gcgccccgcg ccccccgagc gcgtcgtggc cgtcgtgggc
 901  gcctcggcca gctccgtctc catcatggtc gccaacgtgc tgcgcctgtt tgcgataccc cagatcagct atgcctccac agccccggag ctcagcgact
1001  ccacacgcta tgacttcttc tcccgggtgg tgccacccga ctcctaccag gcgcaggcca tggtggacat cgtgagggca ctgggatgga actatgtgtc
1101  cacgctggcc tccgagggca actatggcga aagtgggctt gaggccttcg ttcagatctc ccgagaggct gggggggtct gtattgccca gtctatcaag
1201  attcccaggg aaccaaagcc aggagagttc agcaaggtga tcaggagact catggagacg cccaacgccc ggggcatcat catctttgcc aatgaggatg
1301  acatcaggcg ggtcctggag gcagctcgcc aggccaacct gaccggccac ttcctgtggg tcggctcaga cagctgggga gccaagacct cacccatctt
1401  gagcctggag gacgtggccg ttggggccat caccatcctg cccaaaaggg cctccatcga cggatttgac cagtacttca tgactcgatc cctggagaac
1501  aaccgcagga acatctggtt cgccgagttc tgggaagaga attttaactg caaactgacc agctcaggta cccagtcaga tgattccacc cgcaaatgca
1601  caggcgagga acgcatcggc cgggactcca cctacgagca ggagggcaag gtgcagtttg tgattgatgc ggtgtacgcc attgcccacg ccctccacag
1701  catgcaccag gcgctctgcc ctgggcacac aggcctgtgc ccggcgatgg aacccaccga tgggcggatg cttctgcagt acattcgagc tgtccgcttc
1801  aatggcagcg caggaacccc tgtgatgttc aacgagaacg gagatgcgcc cgggcggtac gacatcttcc agtaccaggc gaccaatggc agtgccagca
1901  gtggcgggta ccaggcagtg ggccagtggg cagagaccct cagactggat gtggaggccc tgcagtggtc tggcgacccc cacgaggtgc cctcgtctct
2001  gtgcagcctg ccctgcgggc cgggggagcg gaagaagatg gtgaagggcg tcccctgctg ttggcactgc gaggcctgtg acgggtaccg cttccaggtg
2101  gacgagttca catgcgaggc ctgtcctggg gacatgaggc ccacgcccaa ccacacgggc tgccgcccca cacctgtggt gcgcctgagc tggtcctccc
2201  cctgggcagc cccgccgctc ctcctggccg tgctgggcat cgtggccact accacggtgg tggccacctt cgtgcggtac aacaacacgc ccatcgtccg
2301  ggcctcgggc cgagagctca gctacgtcct cctcaccggc atcttcctca tctacgccat caccttcctc atggtggctg agcctggggc cgcggtctgt
2401  gccgcccgca ggctcttcct gggcctgggc acgaccctca gctactctgc cctgctcacc aagaccaacc gtatctaccg catctttgag cagggcaagc
2501  gctcggtcac acccctccc ttcatcagcc ccacctcaca gctggtcatc accttcagcc tcacctccct gcaggtggtg gggatgatag catggctggg
2601  ggcccggccc ccacacagcg tgattgacta tgaggaacag cggacggtgg accccgagca ggccagaggg gtgctcaagt gcgacatgtc ggatctgtct
2701  ctcatcggct gcctgggcta cagcctcctg ctcatggtca cgtgcacagt gtacgccatc aaggcccgtg gcgtgcccga gaccttcaac gaggccaagc
2801  ccatcggctt caccatgtac accacctgca tcatctggct ggcattcgtg cccatcttct ttggcactgc ccagtcagct gaaaagatct acatccagac
2901  aaccacgcta accgtgtcct tgagcctgag tgcctcggtg tccctcggca tgctctacgt acccaaaacc tacgtcatcc tcttccatcc agagcagaat
3001  gtgcagaagc gaaagcggag cctcaaggcc acctccacgg tggcagcccc acccaagggc gaggatgcag aggctcacaa gtaaaggcgc gccagtatac
3101  tctagagtcg acacccgggg aattcctcga gcgctcgtct ctagcttggc gtaatcatgg tcatagctgt ttcctgtgtg aaattgttat ccgctcacaa
3201  ttccacacaa catacgagcc ggaagcataa agtgtaaagc ctggggtgcc taatgagtga gctaactcac attaattgcg ttgcgctcac tgcccgcttt
3301  ccagtcggga aacctgtcgt gccagctgca ttaatgaatc ggccaacgcg cggggagagg cggtttgcgt attgggcgct cttccgcttc ctcgctcact
3401  gactcgctgc gctcggtcgt tcggctgcgg cgagcggtat cagctcactc aaaggcggta atacggttat ccacagaatc aggggataac gcaggaaaga
3501  acatgtgagc aaaaggccag caaaaggcca ggaaccgtaa aaaggccgcg ttgctggcgt ttttccatag gctccgcccc cctgacgagc atcacaaaaa
3601  tcgacgctca agtcagaggt ggcgaaaccc gacaggacta taaagatacc aggcgtttcc ccctggaagc tccctcgtgc gctctcctgt tccgaccctg
3701  ccgcttaccg gatacctgtc cgcctttctc ccttcgggaa gcgtggcgct ttctcaatgc tcacgctgta ggtatctcag ttcggtgtag gtcgttcgct
3801  ccaagctggg ctgtgtgcac gaaccccccg ttcagcccga ccgctgcgcc ttatccggta actatcgtct tgagtccaac ccggtaagac acgacttatc
3901  gccactggca gcagccactg gtaacaggat tagcagagcg aggtatgtag gcggtgctac agagttcttg aagtggtggc ctaactacgg ctacactaga
4001  aggacagtat ttggtatctg cgctctgctg aagccagtta ccttcggaaa aagagttggt agctcttgat ccggcaaaca aaccaccgct ggtagcggtg
4101  gttttttttgt ttgcaagcag cagattacgc gcagaaaaaa aggatctcaa gaagatcctt tgatcttttc tacggggtct gacgctcagt ggaacgaaaa
4201  ctcacgttaa gggattttgg tcatgagatt atcaaaaagg atcttcacct agatcctttt aaattaaaaa tgaagtttta aatcaatcta aagtatatat
4301  gagtaaactt ggtctgacag ttaccaatgc ttaatcagtg aggcacctat ctcagcgatc tgtctatttc gttcatccat agttgcctga ctccccgtcg
4401  tgtagataac tacgatacgg gagggcttac catctggccc cagtgctgca atgataccgc gagacccacg ctcaccggct ccagatttat cagcaataaa
4501  ccagccagcc ggaagggccg agcgcagaag tggtcctgca actttatccg cctccatcca gtctattaat tgttgccggg aagctagagt aagtagttcg
4601  ccagttaata gtttgcgcaa cgttgttgcc attgctacag gcatcgtggt gtcacgctcg tcgtttggta tggcttcatt cagctccggt tcccaacgat
4701  caaggcgagt tacatgatcc cccatgttgt gcaaaaaagc ggttagctcc ttcggtcctc cgatcgttgt cagaagtaag ttggccgcag tgttatcact
4801  catggttatg gcagcactgc ataattctct tactgtcatg ccatccgtaa gatgcttttc tgtgactggt gagtactcaa ccaagtcatt ctgagaatag
4901  tgtatgcggc gaccgagttg ctcttgcccg gcgtcaatac gggataatac cgcgccacat agcagaactt taaaagtgct catcattgga aaacgttctt
5001  cggggcgaaa actctcaagg atcttaccgc tgttgagatc cagttcgatg taacccactc gtgcacccaa ctgatcttca gcatctttta ctttcaccag
5101  cgtttctggg tgagcaaaaa caggaaggca aaatgccgca aaaaagggaa taagggcgac acggaaatgt tgaatactca tactcttcct ttttcaatat
5201  tattgaagca tttatcaggg ttattgtctc atgagcggat acatatttga atgtatttag aaaaataaac aaatagggtt tccgcgcaca tttccccgaa
5301  aagtgccacc tgacgtctaa gaaaccatta ttatcatgac attaacctat aaaaataggc gtatcacgag gccctttcgt c
```

> RDC1008 Translated Insert Sequence

```
   1  marprrarep llvallplaw laqaglaraa gsvrlagglt lgglfpvhar gaagracgpl kkeqgvhrle amlyaldrvn adpellpgvr lgarlldtcs
 101  rdtyaleqal sfvqalirgr gdgdevgvrc pggvpplrpa ppervvavvg asassvsimv anvlrlfaip qisyastape lsdstrydff srvvppdsyq
 201  aqamvdivra lgwnyvstla segnygesgv eafvqisrea ggvciaqsik iprepkpgef skvirrlmet pnargiiifa neddirrvle aarqanltgh
 301  flwvgsdswg aktspilsle dvavgaitil pkrasidgfd qyfmtrslen nrrniwfaef weenfncklt ssgtqsddst rkctgeerig rdstyeqegk
 401  vqfvidavya iahalhsmhq alcpghtglc pameptdgrm llqyiravrf ngsagtpvmf nengdapgry difqyqatng sassggyqav gqwaetlrld
 501  vealqwsgdp hevpsslcsl pcgpgerkkm vkgvpccwhc eacdgyrfqv deftceacpg dmrptpnhtg crptpvvrls wsspwaappl llavlgivat
 601  ttvvatfvry nntpivrasg relsyvlltg ifliyaitfl mvaepgaavc aarrlflglg ttlsysallt ktnriyrife qgkrsvtppp fisptsqlvi
 701  tfsltslqvv gmiawlgarp phsvidyeeq rtvdpeqarg vlkcdmsdls ligclgysll lmvtctvyai kargvpetfn eakpigftmy ttciiwlafv
 801  piffgtaqsa ekiyiqtttl tvslslsasv slgmlyvpkt yvilfhpeqn vqkrkrslka tstvaappkg edaeahk
```