# *h*mGluR8 VersaClone cDNA

**Catalog Number: RDC1002**

## Specifications:

| | |
|---|---|
| Gene: | *h*GRM8 |
| Accession: | NP_000836 |
| Insert size: | 2740bp |
| 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

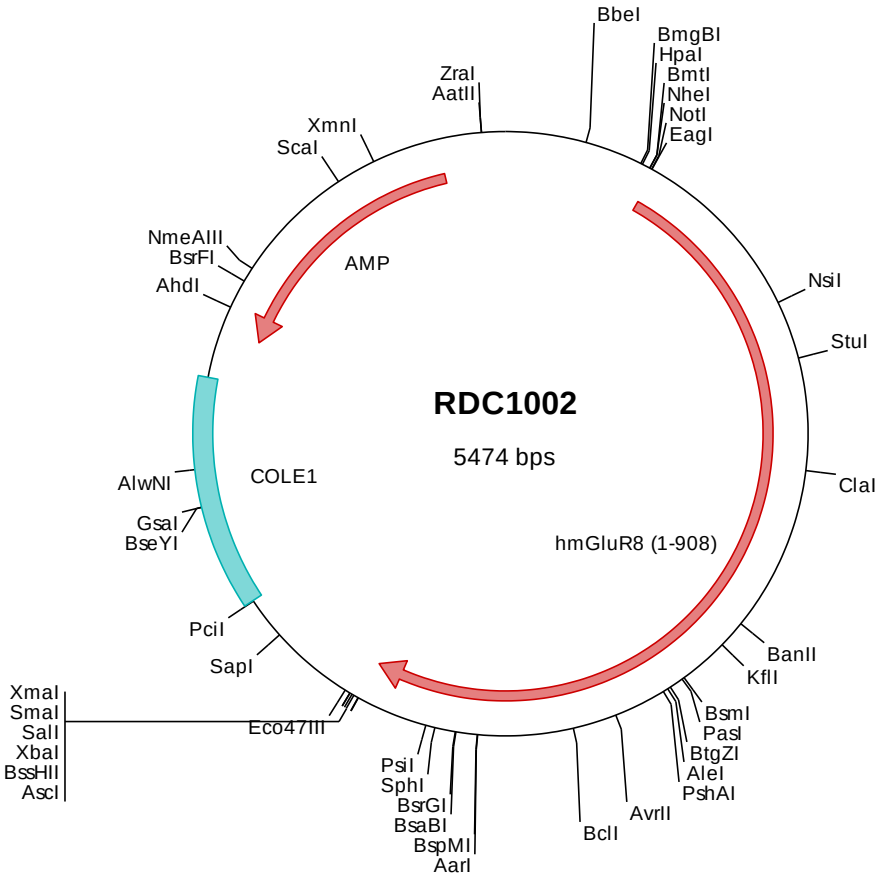
| | |
|---|---|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5 |
| Shipping | Ships at ambient temperature |
| Stability | 1 year from date of receipt when stored at -20°C to -80°C |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

## *h*mGluR8 cDNA Plasmid

**GRM8 glutamate receptor, metabotropic 8 [ *Homo sapiens* (human) ]**

**Also known as:** GLUR8; mGlu8; GPRC1H; MGLUR8

**Summary:**
MGLUR8 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

## > RDC1002 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
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 601  ctcttccctg tccacgcaaa gggagagaga ggggtgcctt gtggggagct gaagaaggaa aaggggattc acagactgga ggccatgctt tatgcaattg
 701  accagattaa caaggaccct gatctccttt ccaacatcac tctgggtgtc cgcatcctcg acacgtgctc tagggacacc tatgctttgg agcagtctct
 801  aacattcgtg caggcattaa tagagaaaga tgcttcggat gtgaagtgtg ctaatggaga tccacccatt ttcaccaagc ccgacaagat ttctggcgtc
 901  ataggtgctg cagcaagctc cgtgtccatc atggttgcta acatttttaag acttttaag atacctcaaa tcagctatgc atccacagcc ccagagctaa
1001  gtgataacac caggtatgac tttttctctc gagtggttcc gcctgactcc taccaagccc aagccatggt ggacatcgtg acagcactgg gatggaatta
1101  tgtttcgaca ctggcttctg aggggaacta tggtgagagc ggtgtggagg ccttcaccca gatctcgagg gagattggtg gtgtttgcat tgctcagtca
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1301  aggatgacat caggaggata ttggaagcag caaaaaaact aaaccaaagt gggcattttc tctggattgg ctcagatagt tggggatcca aaatagcacc
1401  tgtctatcag caagaggaga ttgcagaagg ggctgtgaca attttgccca aacgagcatc aattgatgga tttgatcgat actttagaag ccgaactctt
1501  gccaataatc gaagaaatgt gtggtttgca gaattctggg aggagaattt tggctgcaag ttaggatcac atgggaaaag gaacagtcat ataaagaaat
1601  gcacagggct ggagcgaatt gctcgggatt catcttatga acaggaagga aaggtccaat ttgtaattga tgctgtatat tccatggctt acgccctgca
1701  caatatgcac aaagatctct gccctggata cattggcctt tgtccacgaa tgagtaccat tgatgggaaa gagctacttg gttatattcg ggctgtaaat
1801  tttaatggca gtgctggcac tcctgtcact tttaatgaaa acggagatgc tcctggacgt tatgatatct tccagtatca aataaccaac aaaagcacag
1901  agtacaaagt catcggccac tggaccaatc agcttcatct aaaagtggaa gacatgcagt gggctcatag agaacatact cacccggcgt ctgtctgcag
2001  cctgccgtgt aagccagggg agaggaagaa aacggtgaaa ggggtccctt gctgctggca ctgtgaacgc tgtgaaggtt acaactacca ggtggatgag
2101  ctgtcctgtg aactttgccc tctggatcag agacccaaca tgaaccgcac aggctgccag cttatcccca tcatcaaatt ggagtggcat tctccctggg
2201  ctgtggtgcc tgtgtttgtt gcaatattgg gaatcatcgc caccaccttt gtgatcgtga cctttgtccg ctataatgac acacctatcg tgagggcttc
2301  aggacgcgaa cttagttacg tgctcctaac ggggatcttt ctctgttatt caatcacgtt tttaatgatt gcagcaccag atacaatcat atgctccttc
2401  cgacgggtct tcctaggact tggcatgtgt ttcagctatg cagcccttct gaccaaaaca aaccgtatcc accgaatatt tgagcagggg aagaaatctg
2501  tcacagcgcc caagttcatt agtccagcat ctcagctggt gatcaccttc agcctcatct ccgtccagct ccttggagtg tttgtctggt ttgttgtgga
2601  tccccccccac atcatcattg actatggaga gcagcggaca ctagatccag agaaggccag gggagtgctc aagtgtgaca tttctgatct ctcactcatt
2701  tgttcacttg gatacagtat cctcttgatg gtcacttgta ctgtttatgc cattaaaacg agaggtgtcc cagagacttt caatgaagcc aaacctattg
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3001  aaacgcaaga gaagcttcaa ggctgtggtg acagctgcca ccatgcaaag caaactgatc caaaaaggaa atgacagacc aaatggcgag gtgaaaagtg
3101  aactctgtga gagtcttgaa accaacactt cctctaccaa gacaacatat atcagttaca gcaatcattc aatctaaagg cgcgccagta tactctagag
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3801  ccggatacct gtccgccttt ctcccttcgg gaagcgtggc gctttctcaa tgctcacgct gtaggtatct cagttcggtg taggtcgttc gctccaagct
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4601  gccggaaggg ccgagcgcag aagtggtcct gcaactttat ccgcctccat ccagtctatt aattgttgcc gggaagctag agtaagtagt tcgccagtta
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4801  agttacatga tcccccatgt tgtgcaaaaa agcggttagc tccttcggtc ctccgatcgt tgtcagaagt aagttggccg cagtgttatc actcatggtt
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## > RDC1002 Translated Insert Sequence

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 101  rildtcsrdt yaleqsltfv qaliekdasd vkcangdppi ftkpdkisgv igaaassvsi mvanilrlfk ipqisyasta pelsdntryd ffsrvvppds
 201  yqaqamvdiv talgwnyvst lasegnyges gveaftqisr eiggvciaqs qkipreprpg efekiikrll etpnaravim faneddirri leaakklnqs
 301  ghflwigsds wgskiapvyq qeeiaegavt ilpkrasidg fdryfrsrtl annrrnvwfa efweenfgck lgshgkrnsh ikkctgleri ardssyeqeg
 401  kvqfvidavy smayalhnmh kdlcpgyigl cprmstidgk ellgyiravn fngsagtpvt fnengdapgr ydifqyqitn ksteykvigh wtnqlhlkve
 501  dmqwahreht hpasvcslpc kpgerkktvk gvpccwhcer cegynyqvde lscelcpldq rpnmnrtgcq lipiiklewh spwavvpvfv ailgiiattf
 601  vivtfvrynd tpivrasgre lsyvlltgif lcysitflmi aapdtiicsf rrvflglgmc fsyaallkkt nrihrifeqg kksvtapkfi spasqlvitf
 701  slisvqllgv fvwfvvdpph iiidygeqrt ldpekargvl kcdisdlsli cslgysillm vtctvyaikt rgvpetfnea kpigftmytt ciiwlafipi
 801  ffgtaqsaek myiqtttltv smslsasvsl gmlympkvyi iifhpeqnvq krkrsfkavv taatmqskli qkgndrpnge vkselcesle tntsstktty
 901  isysnhsi
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