

Specifications:

| | |
|----------------|------------------|
| Gene: | hGRIA4 |
| Accession: | NP_000820 |
| Insert size: | 2721bp |
| 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. |

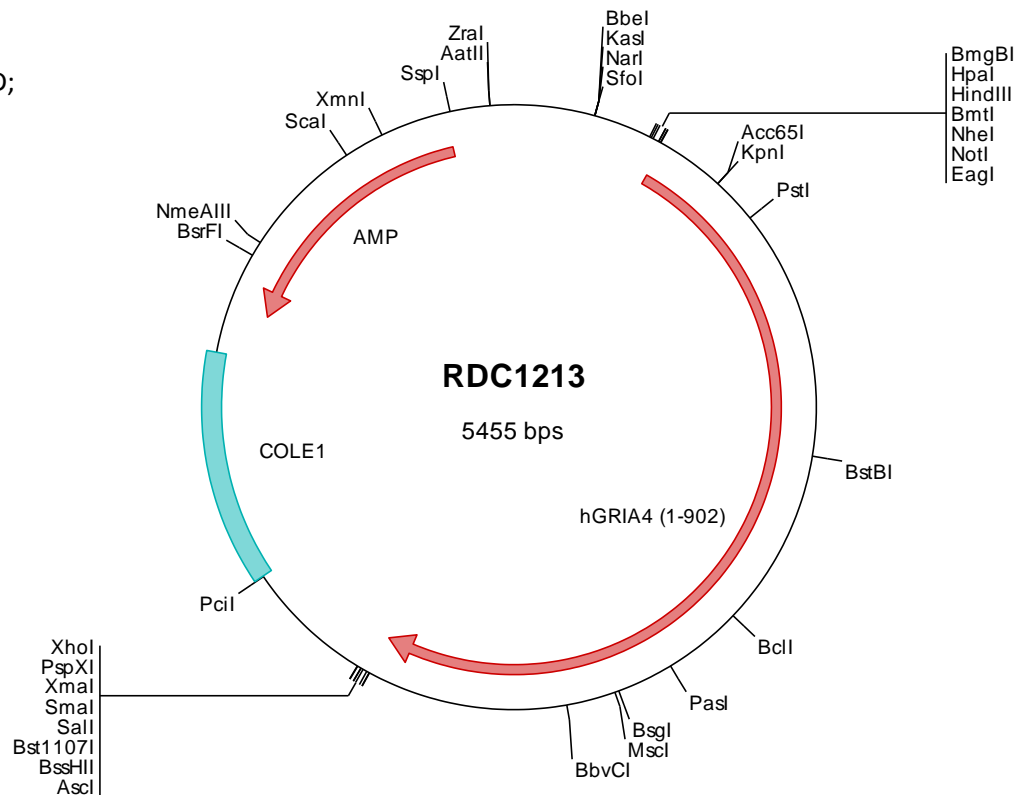
hGluR4 cDNA Plasmid

GRIA4 glutamate receptor, ionotropic, AMPA 4 [*Homo sapiens* (human)]

Also known as: GLUR4; GLURD; GluA4; GLUR4C

Summary:

GluR4/GRIA4 belongs to a family of alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA) receptors. AMPA receptors mediate fast excitatory synaptic transmission in the CNS and play a key role in hippocampal synaptic long-term potentiation (LTP) and depression (LTD). It is one of four AMPA receptor subunits that form a functional heterotetrameric glutamate receptor. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC1213 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtea cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcagggcgcg tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatagcgc ggtgtaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301 taagccagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccgggt ttcccagtc acgacgtgtg aaaacgacgc ccagtgaatt
401 ggagacgtgt ttaacaagctt ggatccgata tcgctagcgc gggcggccac atgaggatta ttccagaca gattgtcttg ttattttctg gattttgggg
501 actcggcaat ggagcctttc cgagcagcgt gcaaataggt ggtctcttca tccgaaacac agatcaggaa tacactgctt ttcgattagc aaattttctt
601 cataaaccca gccccaatgc gtccgaagct ctttttaatt tggtagctca tggtagaac attgagacag ccaacagttt tgcgtgaaca aagccttct
701 gttcccagta ttctagagga gtatttgcca tttttggact ctatgataag aggtcggtag ataccttgac ctactttctg agcgccttac atactccct
801 catcacacca agtttcccta ctgaggggga gagccagttt gtgctgcaac taagaccttc gttacgagga gcaactotga gtttgcgga tcaactacga
901 tggaaactgtt ttgtcttctt gtagacaca gacaggggat actcgatact ccaagctatt atggaaaaag caggacaaaa tggttggcat gtcagcgcta
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2001 acttcaaaac atattagaac agatgttaag tgttggaaag catgtttaaag gctaccatta tatcattgca aacttgggat tcaaggatat ttctcttgag
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> RDC1213 Translated Insert Sequence

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301 tydgvlvmae tfrslrrqki disrsgnagd clanpaaprv qgidmertlk qvriqgltn vqfdhygrrv nytmdvfelk stgprkvgyw ndmklvliq
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501 ltitlvreev idfskpfmsl gisimikkp kskpgvfvsl dplayeiwmc ivfayigvsv vflvsrfsfp yewhteeped gkegpsdppp nefgifnslw
601 fslgafmqgg cdisprslsg rivggvwwff tliiissyta nlaafltvr mvspiesae lakqteiyag tldsgstkef frsrkiaive kmwtymrsae
701 psvftrttae gwarvrkskg kfafllestm neyieqrpkc dtmktvggnd skgygvatpk gsslgtpvnl avlkleagv avlkleagv avlkleagv avlkleagv
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901 lp