

Specifications:

Gene:	hGABRG2
Accession:	NP_000807
Insert size:	1417bp
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.

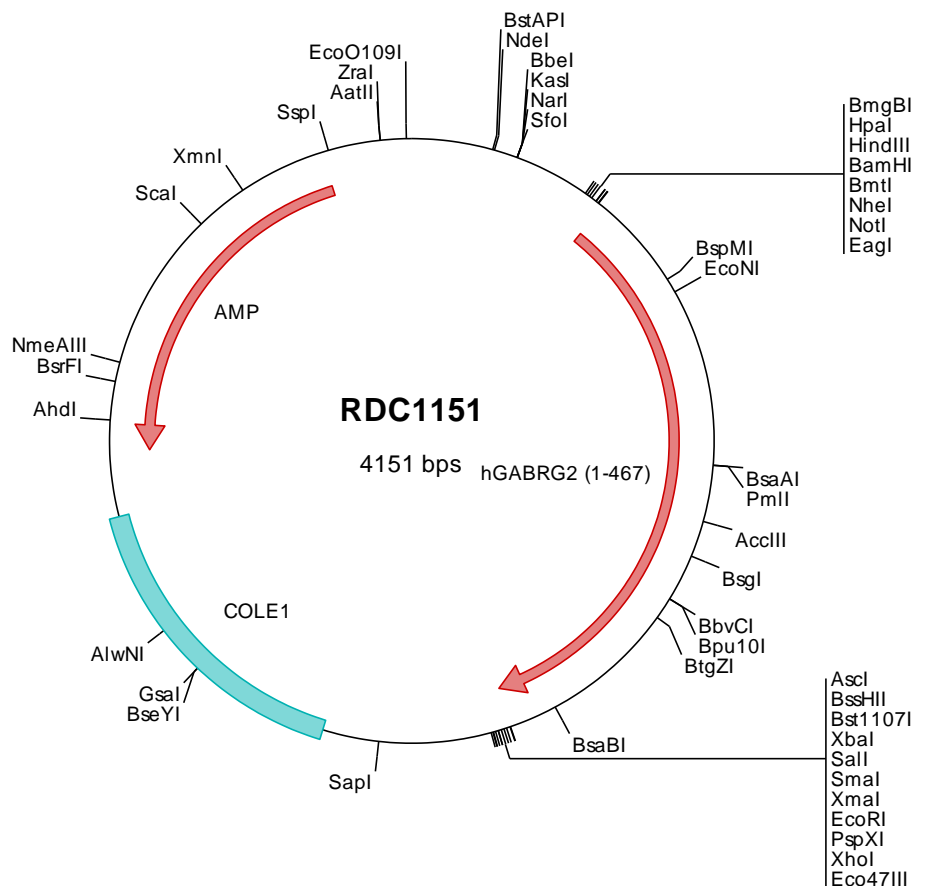
hGABA-A R gamma 2 cDNA Plasmid

GABRG2 gamma-aminobutyric acid (GABA) A receptor, gamma 2 [*Homo sapiens* (human)]

Also known as: CAE2; ECA2; GEFSP3

Summary:

GABA-A receptors are members of the cysteine-loop family of neurotransmitter-gated ion channels. GABA binding to A-type receptors induces an-ion-selective ion channel opening. These receptors are the principal fast inhibitory neurotransmitter receptors in the CNS. GABA-A receptors are pentameric, consisting of proteins from several subunit classes: alpha, beta, gamma, delta and rho. GABRG2 is one of three gamma subunits in mammals, which contain the benzodiazepine binding site. Mutations in GABRG2 have been associated with epilepsy and febrile seizures. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC1151 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gacgctccc gagacggtea cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tetggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201 ccgcacagat gcgtaagag aaaataccgc atcagggcgc attcgccatt caggctgcgc aactgttggg aaggcgcgac ggtcggggcc tcttcgctat
301 taaggcagct ggcgaaagg gtagtgctg caaggcgatt aagtgggta acgcccgggt tttccagtc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagcct ggatccgata tetgtagcgc ggccgcacc atgagttcgc caaatatag gagcacagga agtcagctct actcagactcc
501 tgtattttca cagaaaaatga cgggtgggat tctgctcctg ctgtcgtct accctggctt cactagccag aaatctgat atgactatga agattatgct
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701 atataggagt gaagccaacg ttaattcaaca cagacatgta tgtgaaatgc attggctcag tgaacgctat caaatatgaa taactatgtg atatatctt
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4101 ttatcatgac attaacctat aaaaataggc gtatcacgag gccctttcgt c

> RDC1151 Translated Insert Sequence

1 msspniwstg ssvystpvfs qkmtvwilll lslypftsq ksdddedyda snktwvltpk vpegdvtvil nnllegydnk lrpdigvkpt lihtdmvns
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201 ehscplefss ygypreeiiv qwkrssvevg dtrswrllyq sfvglrntte vvkttsgdyv vmsvyfdlsr rmgfytiqy ipctlivlvs wswfwinkda
301 vpartslgit tvltmttlst iarkslpkvs yvtamdflvs vcfifvfaal veygtlhyfv snrkpskdkd kkkknpapti dirprsatiq mnnathlqer
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