

### Specifications:

Gene:	hGABRG1
Accession:	NP_775807
Insert size:	1411bp
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

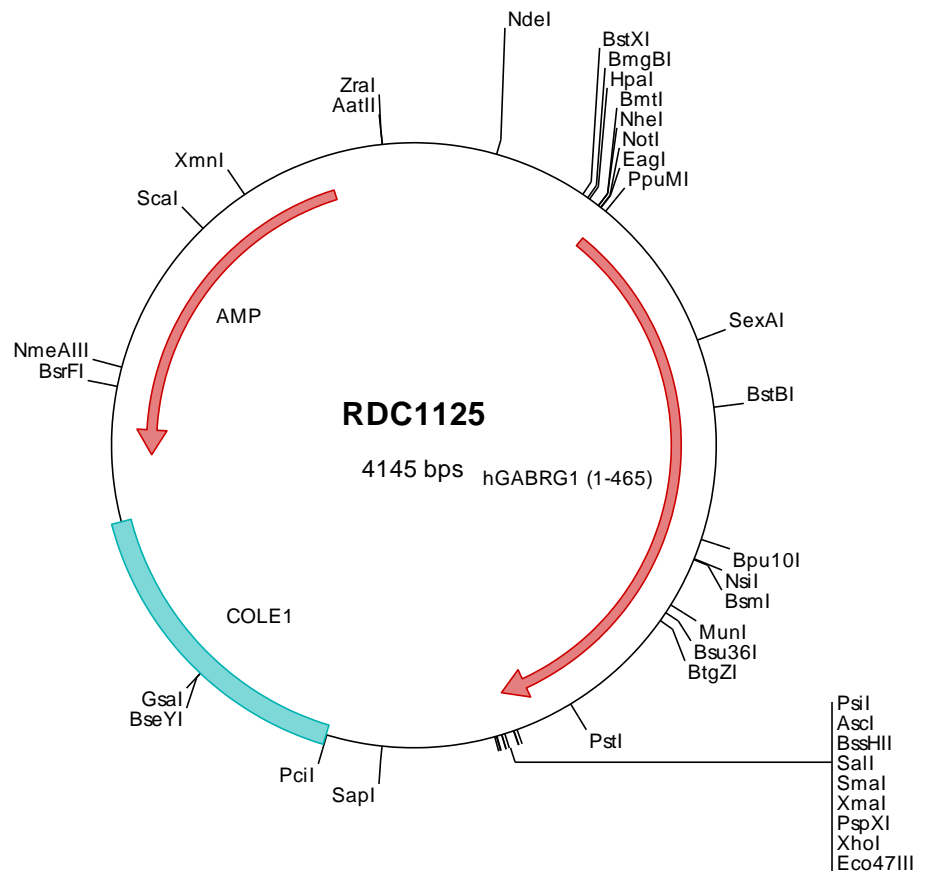
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

## hGABA-A R gamma 1 cDNA Plasmid

**GABRG1 gamma-aminobutyric acid (GABA) A receptor, gamma 1 [ *Homo sapiens* (human) ]**

### 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. GABRG1 is one of three gamma subunits in mammals, which contain the benzodiazepine binding site.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC1125 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagccc
101 tcagggcgcg tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcgggccc tcttcgctat
301 taacggcagct ggcgaaaagg ggatgtgctg caaggcgatt aagtgggta acgcccgggt ttcccgatc acgacgttgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgcacc atgggtcctt tgaaaagctt tctctttcc ccttttttc tcgggagta
501 aagtagaggg gtgaggttg tcttctgtt actgaccctg cattedggaa actgtgttga taaggcagat gatgaagatg atgaggattt aacgggtgaa
601 aaaacotggg tcttggcccc aaaaatcat gaaggagata tcacacaaat tctgatttca ttgcttcaag gctatgacaa taaacttogt ccagatatag
701 gagttaggccc cacagtaatt gaaactgatg tttatgtaaa cagcattgga ccagtgtatc caattaatat ggaaataaca atagatataa tttttgocaa
801 aacotgggtt gacagtogtt taaaatcoa tagtaccatg aaagtgtta tgcttaacag taatatggtt ggaaaaattt ggattcctga cactttcttc
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3701 atacgggata ataccgcgc acatagcaga actttaaag tctctcatg tggaaaaact tcttcggg ctaactctc aaggatctta ccgctttga
3801 gatccagttc gatgtaacc actcgtgcac coaactgatc ttcagcatct tttactttca ccagcgttcc tgggtgagca aaaacaggaa ggcaaatgc
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4101 tgacattaac ctataaaaat agcgtatca cgaggccct tcgctc

> RDC1125 Translated Insert Sequence

1 mgplkaflys pfillrsqsrq vrlvfllltl hlgnvcdkad deddedltvn ktwvlapkih egditqilns llqgydnklr pdigvrptvi etdvyvnsig
101 pvdpinmeyt idiifaqtwf dsrlkfnstm kvmlnsnmv gkiwipdtff rnsrksdahn ittpnrllri wndgrvlytl rltinaecyl qlhnfpmdch
201 scplefssyg ypkneieykw kkspsvevadp kywrllyqfaf vglrnsteit htisgydivim tiffdlstrm gyftiqtyip ciltvvlswv fwinkdavn
301 artslgittv lmttllstia rkslpkvsyv tamdlfvsvc fifvfaalme ygtlhyftsn qkgktatkdr klknkasmt p ghpgstlip mnnisvpqged
401 dygyqclegk dcasffccfe dcrctgswreg rihiriakid sysriffpta falfnlvyw gyl