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Product datasheet for RG207591

GABA A Receptor delta (GABRD) (NM_000815) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor delta (GABRD) (NM_000815) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GABA A Receptor delta
Synonyms:	EIG10; EJM7; GEFSP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG207591 representing NM_000815
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGCGCCCGCCCGGCTGCTGGCCCCGCTCCTGCTCCTCTGCGCGCAGCAGCTCCGCGGCACCAGAG
CGATGAATGACATCGGCGACTACGTGGGCTCCAACCTGGAGATCTCCTGGCTCCCCAACCTGGACGGGCT
GATAGCCGGCTACGCCCGCAACTTCCGGCCTGGCATCGGAGGCCCCCCCGTGAATGTGGCCCTTGCCCTG
GAGGTGGCCAGCATCGACCACATCTCAGAGGCCAACATGGAGTACACCATGACGGTGTTCCTGCACCAGA
GCTGGCGGGACAGCAGGCTCTCCTACAACCACACCAACGAGACCCTGGGCCTGGACAGCCGCTTCGTGGA
CAAGCTGTGGCTGCCCGACACCTTCATCGTGAACGCCAAGTCGGCCTGGTTCCACGACGTGACGGTGGAG
AACAAGCTCATCCGGCTGCAGCCCGACGGCGTGATCCTGTACAGCATCCGAATCACCTCCACTGTGGCCT
GCGACATGGACCTGGCCAAATACCCCATGGACGAGCAGGAGTGCATGCTGGACCTGGAGAGCTACGGTTA
CTCATCGGAGGACATCGTCTACTACTGGTCGGAGAGCCAGGAGCACATCCACGGGCTGGACAAGCTGCAG
CTGGCGCAGTTCACCATCACCAGCTACCGCTTCACCACGGAGCTGATGAACTTCAAGTCCGCTGGCCAGT
TCCCACGGCTCAGCCTGCACTTCCACCTGCGGAGGAACCGCGGCGTGTACATCATCCAATCCTACATGCC
CTCCGTCCTGCTGGTCGCCATGTCCTGGGTCTCCTTCTGGATCAGCCAGGCGGCGGTGCCCGCCAGGGTG
TCTCTAGGCATCACCACGGTGCTGACGATGACCACGCTCATGGTCAGTGCCCGCTCCTCCCTGCCACGGG
CATCAGCCATCAAGGCACTGGACGTCTACTTCTGGATCTGCTATGTCTTCGTGTTTGCCGCCCTGGTGGA
GTACGCCTTTGCTCATTTCAACGCCGACTACAGGAAGAAGCAGAAGGCCAAGGTCAAGGTCTCCAGGCCG
AGGGCAGAGATGGACGTGAGGAACGCCATTGTCCTCTTCTCCCTCTCTGCTGCCGGCGTCACGCAGGAGC
TGGCCATCTCCCGCCGGCAGCGCCGCGTCCCGGGGAACCTGATGGGCTCCTACAGGTCGGTGGGGGTGGA
GACAGGGGAGACGAAGAAGGAGGGGGCAGCCCGCTCAGGAGGCCAGGGGGGCATCCGTGCCCGGCTCAGG
CCCATCGACGCAGACACCATTGACATTTACGCCCGCGCTGTGTTCCCTGCGGCGTTTGCGGCCGTCAATG
TCATCTACTGGGCGGCATACGCCATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

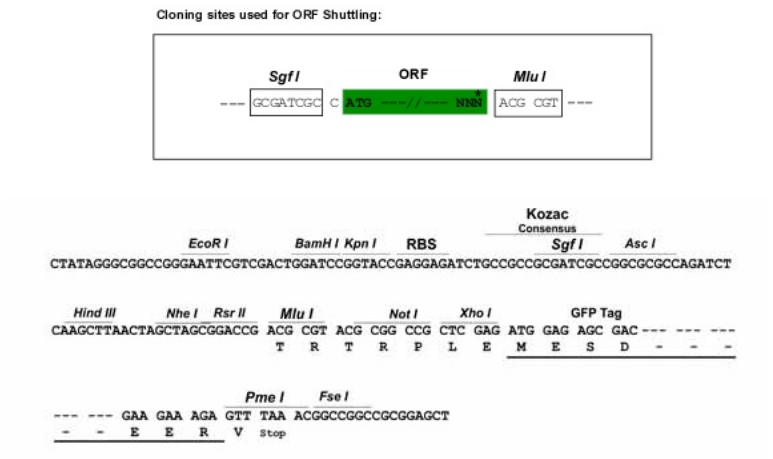
>RG207591 representing NM_000815
Red=Cloning site Green=Tags(s)

MDAPARLLAPLLLLCAQQLRGTRAMNDIGDYVGSNLEISWLPNLDGLIAGYARNFRPGIGGPPVNVALAL
EVASIDHISEANMEYTMTVFLHQSWRDSRLSYNHTNETLGLDSRFVDKLWLPDTFIVNAKSAWFHDVTVE
NKLIRLQPDGVILYSIRITSTVACDMDLAKYPMDEQECMLDLESYGYSSEDIVYYWSESQEHIHGLDKLQ
LAQFTITSYRFTTELMNFKSAGQFPRLSLHFHLRRNRGVYIIQSYMPSVLLVAMSWVSFWISQAAVPARV
SLGITTVLTMTTLMVSARSSLPRASAIKALDVYFWICYVFVFAALVEYAFAHFNADYRKKQKAKVKVSRP
RAEMDVRNAIVLFSLSAAGVTQELAISRRQRRVPGNLMGSYRSVGVETGETKKEGAARSGGQGGIRARLR
PIDADTIDIYARAVFPAAFAAVNVIYWAAYAM

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



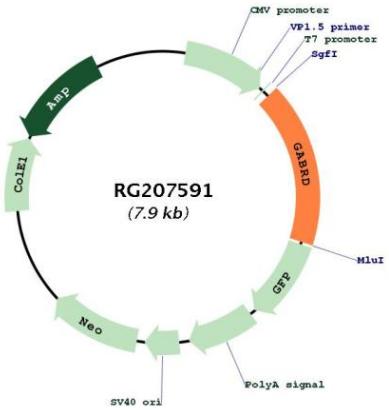
ACCN:	NM_000815
ORF Size:	1356 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_000815.2, NP_000806.2
RefSeq Size:	1882 bp
RefSeq ORF:	1359 bp
Locus ID:	2563
UniProt ID:	O14764
Cytogenetics:	1p36.33

Protein Families: Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: Gamma-aminobutyric acid (GABA) is the major inhibitory neurotransmitter in the mammalian brain where it acts at GABA-A receptors, which are ligand-gated chloride channels. Chloride conductance of these channels can be modulated by agents such as benzodiazepines that bind to the GABA-A receptor. The GABA-A receptor is generally pentameric and there are five types of subunits: alpha, beta, gamma, delta, and rho. This gene encodes the delta subunit. Mutations in this gene have been associated with susceptibility to generalized epilepsy with febrile seizures, type 5. Alternatively spliced transcript variants have been described for this gene, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207591