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Product datasheet for RC237905

GABA A Receptor beta 3 (GABRB3) (NM_001278631) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor beta 3 (GABRB3) (NM_001278631) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GABRB3
Synonyms:	DEE43; ECA5; EIEE43
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237905 representing NM_001278631 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTATTTTCAACAATATTGGAGAGATAAAAGGCTCGCCTATTCTGGGATCCCTCTCAACCTCACGCTTG ACAATCGAGTGGCTGACCAGCTATGGGTGCCCGACACATATTTCTTAAATGACAAAAAGTCATTTGTGCA TGGAGTGACAGTGAAAAACCGCATGATCCGTCTTCACCCTGATGGGACAGTGCTGTATGGGCTCAGAATC ACCACGACAGCAGCATGCATGATGGACCTCAGGAGATACCCCCTGGACGAGCAGAACTGCACTCTGGAAA TTGAAAGCTATGGCTACACCACGGATGACATTGAGTTTTACTGGCGAGGCGGGGACAAGGCTGTTACCGG AGTGGAAAGGATTGAGCTCCCGCAGTTCTCCATCGTGGAGCACCGTCTGGTCTCGAGGAATGTTGTCTTC GCCACAGGTGCCTATCCTCGACTGTCACTGAGCTTTCGGTTGAAGAGGAACATTGGATACTTCATTCTTC AGACTTATATGCCCTCTATACTGATAACGATTCTGTCGTGGGTGTCCTTCTGGATCAATTATGATGCATC TGCTGCTAGAGTTGCCCTCGGGATCACAACTGTGCTGACAATGACAACCATCAACACCCACCTTCGGGAG ACCTTGCCCAAAATCCCCTATGTCAAAGCCATTGACATGTACCTTATGGGCTGCTTCGTCTTTGTGTTCC TGGCCCTTCTGGAGTATGCCTTTGTCAACTACATTTTCTTTGGAAGAGGCCCTCAAAGGCAGAAGAAGCT TGCAGAAAAGACAGCCAAGGCAAAGAATGACCGTTCAAAGAGCGAAAGCAACCGGGTGGATGCTCATGGA AATATTCTGTTGACATCGCTGGAAGTTCACAATGAAATGAATGAGGTCTCAGGCGGCATTGGCGATACCA GGAATTCAGCAATATCCTTTGACAACTCAGGAATCCAGTACAGGAAACAGAGCATGCCTCGAGAAGGGCA TGGGCGATTCCTGGGGGACAGAAGCCTCCCGCACAAGAAGACCCATCTACGGAGGAGGTCTTCACAGCTC AAAATTAAAATACCTGATCTAACCGATGTGAATGCCATAGACAGATGGTCCAGGATCGTGTTTCCATTCA CTTTTTCTCTTTTCAACTTAGTTTACTGGCTGTACTATGTTAAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

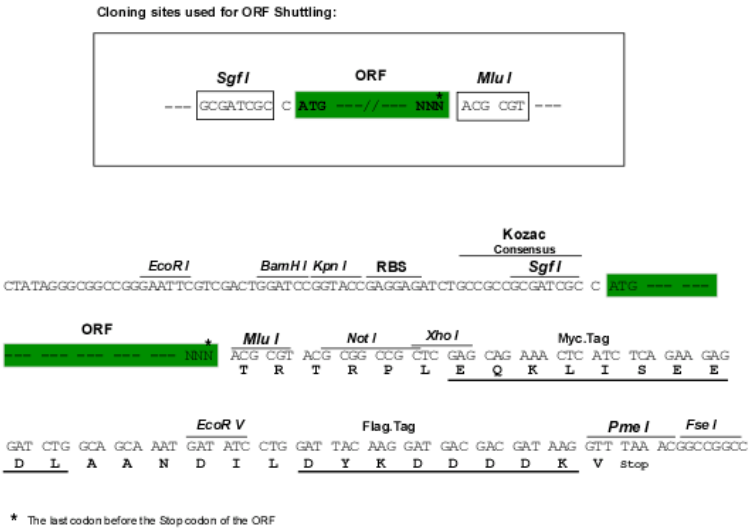
>RC237905 representing NM_001278631
Red=Cloning site Green=Tags(s)

MYFQQYWRDKRLAYSGIPLNLTLDNRVADQLWVPDTYFLNDKKSFVHGVTVKNRMIRLHPDGTVLYGLRI
TTTAACMMDLRRYPLDEQNCTLEIESYGYTTDDIEFYWRGGDKAVTGVERIELPQFSIVEHRLVSRNVVF
ATGAYPRLSLSFRLKRNIGYFILQTYMPSILITILSWVSFWINYDASAARVALGITTVLTMTTINTHLRE
TLPKIPYVKAIDMYLMGCFVFVFLALLEYAFVNYIFFGRGPQRQKKLAEKTAKAKNDRSKSESNRVDAHG
NILLTSLEVHNEMNEVSGGIGDTRNSAISFDNSGIQYRKQSMPREGHGRFLGDRSLPHKKTHLRRRSSQL
KIKIPDLTDVNAIDRWSRIVFPFTFSLFNLVYWLYYVN

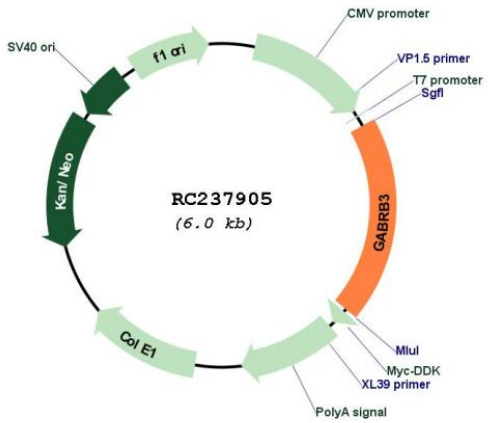
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278631

ORF Size:	1164 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_001278631.1, NP_001265560.1
RefSeq Size:	5889 bp
RefSeq ORF:	1167 bp
Locus ID:	2562
UniProt ID:	P28472
Cytogenetics:	15q12
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	45.5 kDa
Gene Summary:	This gene encodes a member of the ligand-gated ionic channel family. The encoded protein is one the subunits of a multi-subunit chloride channel that serves as the receptor for gamma-aminobutyric acid, a major inhibitory neurotransmitter of the mammalian nervous system. This gene is located on the long arm of chromosome 15 in a cluster with two other genes encoding related subunits of the family. This gene may be associated with the pathogenesis of several disorders including Angelman syndrome, Prader-Willi syndrome, nonsyndromic orofacial clefts, epilepsy and autism. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2013]