

Product datasheet for RC231211

GABA A Receptor beta 3 (GABRB3) (NM_001191321) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor beta 3 (GABRB3) (NM_001191321) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GABA A Receptor beta 3
Synonyms:	DEE43; ECA5; EIEE43
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC231211 representing NM_001191321 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTGGGCCACCTACCAGACAGAAGAGGATTATACCTTAACCATGTATTTCAACAATATTGGAGAGATA
AAAGGCTCGCCTATTCTGGGATCCCTCTCAACCTCAGCTTGACAATCGAGTGGCTGACCAGCTATGGGT
GCCCGACACATATTTCTAAATGACAAAAGTCATTTGTGCATGGAGTGACAGTGAAAACCGCATGATC
CGTCTTACCCTGATGGGACAGTGCTGTATGGGCTCAGAATCACCACGACAGCAGCATGCATGATGGACC
TCAGGAGATACCCCTGGACGAGCAGAAGTGCCTCTGGAAATTGAAAGCTATGGCTACACCACGGATGA
CATTGAGTTTTACTGGCGAGGCGGGGACAAGGCTGTACCGGAGTGGAAAGGATTGAGCTCCCGCAGTTC
TCCATCGTGGAGCACCGTCTGGTCTCGAGGAATGTTGTCTTCGCCACAGGTGCCTATCCTCGACTGTCAC
TGAGCTTTCGGTTGAAGAGGAACATTGGATACTTCATTCTTCAGACTTATATGCCCTCTATACTGATAAC
GATTCTGTCTGGGTGTCCTTCTGGATCAATTATGATGCATCTGCTGCTAGAGTTGCCCTCGGGATCACA
ACTGTGCTGACAATGACAACCATCAACACCCACCTTCGGGAGACCTTGCCAAAAATCCCTATGTCAAAG
CCATTGACATGTACCTTATGGGCTGCTTCGTCTTTGTGTTCTCGGCCCTTCTGGAGTATGCCTTTGTCAA
CTACATTTCTTTGGAAGAGGCCCTCAAAGGCAGAAGAAGCTTGCAAAAAGACAGCCAAGGCAAAGAAT
GACCGTTCAAAGAGCGAAAAGCAACCGGGTGGATGCTCATGGAAATATTCTGTTGACATCGCTGGAAGTTC
ACAATGAAATGAATGAGTCTCAGGCGGCATTGGCGATACCAGGAATTCAGCAATATCCTTTGACAATC
AGGAATCCAGTACAGAAACAGAGCATGCCTCGAGAAGGGCATGGGCGATTCTGGGGGACAGAAGCCTC
CCGCACAAGAAGACCCATCTACGGAGGAGTCTTACAGCTCAAATATAAATACCTGATCTAACCGATG
TGAATGCCATAGACAGATGGTCCAGGATCGTGTTCATTCACTTTTCTTTTCAACTTAGTTTACTG
GCTGTAATGTTAAC

ACGGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC231211 representing NM_001191321
Red=Cloning site Green=Tags(s)

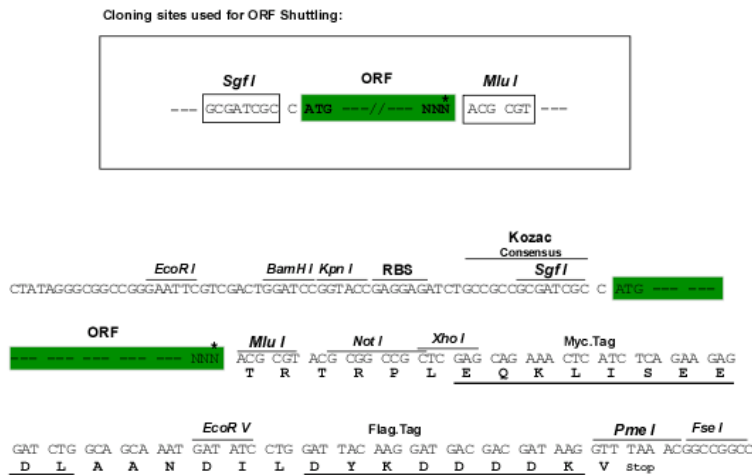
MWATYQTEEDYTLTMYFQQYWRDKRLAYSGIPLNLTLDNRVADQLWVPDITYFLNDKKSFVHGVTVKNRMI
 RLHPDGTVLYGLRITTTAACMDLRRYPLDEQNCTLEIESYGYTTDDIEFYWRGGDKAVTGVERIELPQF
 SIVEHRLVSRNVFATGAYPRLSLSFRLKRNIGYFILQTYMPSILITILSWVSFWINYDASAARVALGIT
 TVLTMTTINTHLRETLPKIPYVKAIDMYLMGCFVFLALLEYAFVNYIFFGRGPQRQKLAEKAKAKN
 DRSKSESNRVDAHGNILLTSLEVHNEMNEVSGGIGDTRNSAISFDNSGIQYRKQSPREGHGRFLGDRSL
 PHKKTHLRRRSSQLKIKIPDLTDVNAIDRSRIVFPFTFSLFNLVYWLYYVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8057_d12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001191321

ORF Size: 1206 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_001191321.3](#)

RefSeq ORF: 1209 bp

Locus ID: 2562

UniProt ID: [P28472](#)

Cytogenetics: 15q12

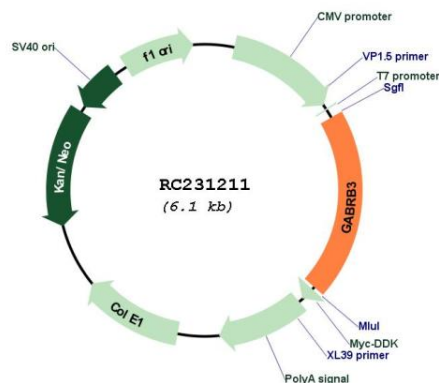
Protein Families: Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

MW: 47.2 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]

Product images:



Circular map for RC231211