

Product datasheet for **SC324637**

GABA A Receptor beta 3 (GABRB3) (NM_000814) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor beta 3 (GABRB3) (NM_000814) Human Untagged Clone
Tag:	Tag Free
Symbol:	GABA A Receptor beta 3
Synonyms:	DEE43; ECA5; EIEE43
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_000814.4
GCAGCAGCAGGAGCAGCCCCGGCTGCGGGTCGCGACGGCGGGCGGGCGCCCCCTCCCCCG
TGCCGGGGCGCGGGGAGGGATGTGGGGCCTTGCGGGAGGAAGGCTTTTCGGCATCTTCT
CGGCCCCGGTGTGGTGGCTGTGGTGTGCTGCGCCAGAGTGTGAACGATCCCGGGAACA
TGTCTTTGTGAAGGAGACGGTGGACAAGCTGTTGAAAGGCTACGACATTCGCCTAAGAC
CCGACTTCGGGGTCCCCGGTCTGCGTGGGATGAACATCGACATCGCCAGCATCGACA
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TCAGTATTTGGACTTTTTAAAGCTCGTAGAAAACAAGACAAGGTGCACCGTTTTCATAGAC
GCAACCTTAACTTACTATTTAGATGAGATCTTTCTAAAGAAAAAAAAAAAAAAAAAAAA
    
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Restriction Sites:	Please inquire
ACCN:	NM_000814
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_000814.4</u> , <u>NP_000805.1</u>
RefSeq Size:	5811 bp
RefSeq ORF:	1422 bp
Locus ID:	2562
UniProt ID:	<u>P28472</u>
Cytogenetics:	15q12
Domains:	Neur_chan_memb, Neur_chan_LBD
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction

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]

Transcript Variant: This variant (1) encodes isoform 1, which is of the same length as isoform 2, but has a distinct N-terminus. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.