

Product datasheet for **SC125324**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC125324 sequence for NM_000814 edited (data generated by NextGen Sequencing)

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ATGTGGGGCCTTGCGGGAGGAAGGCTTTTCGGCATCTTCTCGGCCCGGTGCTGGTGGCT
GTGGTGTGCTGCGCCAGAGTGTGAACGATCCCGGAACATGTCCTTTGTGAAGGAGACG
GTGGACAAGCTGTTGAAAGGCTACGACATTCGCCTAAGACCCGACTTCGGGGTCCCCCG
GTCTGCGTGGGGATGAACATCGACATCGCCAGCATCGACATGGTTCCGAAGTCAACATG
GATTATACCTTAACCATGTATTTTCAACAATATTGGAGAGATAAAAAGGCTCGCCTATTCT
GGGATCCCTCTAACCTCACGCTTGACAATCGAGTGGCTGACCAGCTATGGGTGCCCGAC
ACATATTTCTTAAATGACAAAAAGTCATTTGTGCATGGAGTGACAGTGAAAAACCGCATG
ATCCGTCTTACCCTGATGGGACAGTGTGTATGGGCTCAGAATCACCACGACAGCAGCA
TGCATGATGGACCTCAGGAGATACCCCTGGACGAGCAGAAGTGCCTCTGGAAATTGAA
AGCTATGGCTACACCACGGATGACATTGAGTTTACTGGCGAGGCGGGGACAAGGCTGTT
ACCGGAGTGAAAGGATTGAGCTCCCGCAGTTCTCCATCGTGGAGCACCGTCTGGTCTCG
AGGAATGTTGCTTCGCCACAGGTGCCTATCCTCGACTGTCACTGAGCTTTCGGTTGAAG
AGGAACATTGGATACTTCACTTTCAGACTTATATGCCCTCTATACTGATAACGATTCTG
TCGTGGGTGTCCTTCTGGATCAATTATGATGCATCTGCTGCTAGAGTTGCCCTCGGGATC
ACAACTGTGCTGACAATGACAACCATCAACACCCACCTTCGGGAGACCTTGCCCAAAATC
CCCTATGTCAAAGCCATTGACATGTACCTTATGGGCTGCTTCGTCTTTGTGTTCCCTGGCC
CTTCTGGAGTATGCCTTTGTCAACTACATTTTCTTTGGAAGAGGCCCTCAAAGGCAGAAG
AAGCTTGCAAAAAGACAGCCAAGGCAAGAATGACCGTTCAAAGAGCGAAAAGCAACCGG
GTGGATGCTCATGGAAATATTCTGTTGACATCGCTGGAAGTTCACAATGAAATGAATGAG
GTCTCAGGCGGCATTGGCGATACCAGGAATTCAGCAATATCCTTTGACAACTCAGGAATC
CAGTACAGGAAACAGAGCATGCCTCGAGAAGGGCATGGGCGATTCTGGGGGACAGAATC
CTCCCGACAAGAAGACCCATCTACGGAGGAGTCTTACAGCTCAAAATTAATAACCT
GATCTAACCGATGTGAATGCCATAGACAGATGGTCCAGGATCGTGTTCATTCACTTTT
TCTCTTTCAACTTAGTTTACTGGCTGACTATGTAACTGA
    
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Clone variation with respect to NM_000814.5

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_000814 unedited
AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGCTGCGGGTTCGGACGGC
GGCGGGGCGCCCCCTCCCCCGTCCGGGGCGCGGCGGAGGGATGTGGGCCTTGGCGGAG
GAAGGCTTTTCGGCATCTTCTCGGCCCGGTGCTGGTGGCTGTGGTGTGCTGCGCCAGA
GTGTGAACGATCCCGGAAACATGTCCTTTGTGAAGGAGACGGTGGACAAGCTGTTGAAAG
GCTACGACATTCGCCTAAGACCCGACTTCGGGGTCCCCCGTCTGCGTGGGGATGAACA
TCGACATCGCCAGCATCGACATGGTTTCCGAAGTCAACATGGATTATACCTTAACCATGT
ATTTTCAACAATATTGGAGAGATAAAAAGGCTCGCCTATTCTGGGATCCCTCTCAACCTCA
CGCTTGACAATCGAGTGGCTGACCACTATGGGTGCCCGACACATATTTCTTAAATGACAA
AAAGTCATTTGTGCATGGAGTGACAGTGAAAAACCGCATGATCCGTCTTACCCTGATGGG
ACAGTGTGTATGGGCTCAGAATCACCACGACAGCAGCATGCATGATGGACCTCAGGAGA
TACCCCTGGACGAGCAGAAGTGCCTCTGGANATTGAAAGCTATGGCTACCCACGGATG
ACATTTGAGTTTACTGCGGAGGCGNACNAAGGCTGTACCCGGAGTGAAAAGGATTGA
CTCCCNCGAGTTTTCCATCGTGGACACCCGTCTGTCTCNAGGAAATGTTGTCTTCGCC
ACAGGTGCCATCCCTCACTGACTGNNNNTTTTTTGGGTGGAGAGGACATTGGATACTTCA
TTCTTAGACTTATTGCCTCTTGTACATCTTNGGGGGGGGGTCCCTTCGAAACAT
TATGAGCATTGTGCCAAAGTGCCCTCGATACACTGGCTGACATGCACATA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000814 unedited ACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTAGAAAGATCTCATCTAAATAGTAA GTTAAGGTTGCGTCTATGAAACCGGTGCACCTTGCTTGTCTACGAGCTTTAAAAAGT CCAAATACTGATGAGGCTGTGGATCAGAAGGAACCAACAGTGACTGTGTTGCTGTCAGG TTGCCCTCCTTTGCCTCAGAGAACGGTCATGGGTCGTTGGGTGACGCGTGGTGTGTACGG GTCATGTTCTGCAGAATCCTAGTCAGTCTAAGAGTAGTTGGATGTGCTTATGAAATATG TCAGATACAGAAATAAAGGCATGAGGATGATTCTTAGTTTCTGAAATTGAACAGTAGAAG TGTTTTAGCTTCAATCTTAATTTCTAGATAACAGAAAGTAGTTACATCACATAAAGGAAA ATATGACATCGCATGCTGCCATGATAGCAAGCGTAAGAAACAAAACTTGGTAAATATAC ATATATATGCATATTATGCAAATATATTTTCTATTAACATACAATGTTATAAGAATGATA ACATAACTGCAAGGGGAAAAATCATCCTAGATGGTTTTACCTTAGAGTAACGAATAACCT GAGACGTCTATGCTTTCTGTTGGATATCANGCCTAGAAATCCATACGAGATGTAGAGCAC ATTTTCAGTGATTGAAATGTCACCTGGCCAAACGTGTCACCTGTGTCGCACATGACAGTGA AGCTGGATCCACTCCNNAGTGACAACAGATACAACTACACACTGTATATTAGAGTACTT ACAACGAGATGCCATTCCTCCCGATGAGTTTTCAAAGAGGTCGTTCCAGACTTCACGTG GGATCTATCTTGNTTCAGACACAGGTATCACACTGCCGTGGCTCACCCACCACTAACCAT GCAGAAACGTTGCCCGAGAAACAACCCTCCAGAAAGCCAGAAGCCTTGCTACTAACTG ACGAAGGAATTGATAAGGCCCTTTAACAGCATACCTGN
Restriction Sites:	NotI-NotI
ACCN:	NM_000814
Insert Size:	1422 bp
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).
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:	NM_000814.3 , NP_000805.1
RefSeq Size:	3053 bp
RefSeq ORF:	1422 bp
Locus ID:	2562
UniProt ID:	P28472
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:	<p>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]</p> <p>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.</p>