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# Product datasheet for SC109260

## GABA A Receptor beta 3 (GABRB3) (NM_021912) Human Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | GABA A Receptor beta 3 (GABRB3) (NM_021912) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | GABA A Receptor beta 3 |
| **Synonyms:** | DEE43; ECA5; EIEE43 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |
| **Fully Sequenced ORF:** | >NCBI ORF sequence for NM_021912, the custom clone sequence may differ by one or more nucleotides |

ATGTGCTCCGGGCTCCTGGAGCTCCTGCTGCCCATCTGGCTCTCCTGGACCCTGGGGACCCGAGGCTCTG
AGCCCCGCAGTGTGAACGATCCCGGGAACATGTCCTTTGTGAAGGAGACGGTGGACAAGCTGTTGAAAGG
CTACGACATTCGCCTAAGACCCGACTTCGGGGGTCCCCCGGTCTGCGTGGGGATGAACATCGACATCGCC
AGCATCGACATGGTTTCCGAAGTCAACATGGATTATACCTTAACCATGTATTTTCAACAATATTGGAGAG
ATAAAAGGCTCGCCTATTCTGGGATCCCTCTCAACCTCACGCTTGACAATCGAGTGGCTGACCAGCTATG
GGTGCCCGACACATATTTCTTAAATGACAAAAAGTCATTTGTGCATGGAGTGACAGTGAAAAACCGCATG
ATCCGTCTTCACCCTGATGGGACAGTGCTGTATGGGCTCAGAATCACCACGACAGCAGCATGCATGATGG
ACCTCAGGAGATACCCCCTGGACGAGCAGAACTGCACTCTGGAAATTGAAAGCTATGGCTACACCACGGA
TGACATTGAGTTTTACTGGCGAGGCGGGGACAAGGCTGTTACCGGAGTGGAAAGGATTGAGCTCCCGCAG
TTCTCCATCGTGGAGCACCGTCTGGTCTCGAGGAATGTTGTCTTCGCCACAGGTGCCTATCCTCGACTGT
CACTGAGCTTTCGGTTGAAGAGGAACATTGGATACTTCATTCTTCAGACTTATATGCCCTCTATACTGAT
AACGATTCTGTCGTGGGTGTCCTTCTGGATCAATTATGATGCATCTGCTGCTAGAGTTGCCCTCGGGATC
ACAACTGTGCTGACAATGACAACCATCAACACCCACCTTCGGGAGACCTTGCCCAAAATCCCCTATGTCA
AAGCCATTGACATGTACCTTATGGGCTGCTTCGTCTTTGTGTTCCTGGCCCTTCTGGAGTATGCCTTTGT
CAACTACATTTTCTTTGGAAGAGGCCCTCAAAGGCAGAAGAAGCTTGCAGAAAAGACAGCCAAGGCAAAG
AATGACCGTTCAAAGAGCGAAAGCAACCGGGTGGATGCTCATGGAAATATTCTGTTGACATCGCTGGAAG
TTCACAATGAAATGAATGAGGTCTCAGGCGGCATTGGCGATACCAGGAATTCAGCAATATCCTTTGACAA
CTCAGGAATCCAGTACAGGAAACAGAGCATGCCTCGAGAAGGGCATGGGCGATTCCTGGGGGACAGAAGC
CTCCCGCACAAGAAGACCCATCTACGGAGGAGGTCTTCACAGCTCAAAATTAAAATACCTGATCTAACCG
ATGTGAATGCCATAGACAGATGGTCCAGGATCGTGTTTCCATTCACTTTTTCTCTTTTCAACTTAGTTTA
CTGGCTGTACTATGTTAACTGA



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_021912 unedited
NGGGGTGCAAATTTGTATACGACTCCTATAGGCGGCNCGCGAATTCGCACGAGGCTGCTC
GGAGAGTAGGGGGGAGAGCGGATCCCAGCAGGTTAGGCCGGAGGAACAGCGCCATGTGCT
CCGGGCTCCTGGAGCTCCTGCTGCCCATCTGGCTCTCCTGGACCCTGGGGACTCGAGGCT
CTGAGCCTCGCAGTGTGAACGATCCCGGGAACATGTCCTTTGTGAAGGAGACGGTGGACA
AGCTGTTGAAAGGCTACGACATTCGCCTAAGACCCGACTTCGGGGGTCCCCCGGTCTGCG
TGGGGATGAACATCGACATCGCCAGCATCGACATGGTTTCCGAAGTCAACATGGATTATA
CCTTAACCATGTATTTTCAACAATATTGGAGAGATAAAAGGCTCGCCTATTCTGGGATCC
CTCTCAACCTCACGCTTGACAATCGAGTGGCTGACCAGCTATGGGTGCCCGACACATATT
TCTTAAATGACAAAAAGTCATTTGTGCATGGAGTGACAGTGAAAAACCGCATGATCCGTC
TTCACCCTGATGGGACAGTGCTGTATGGGCTCAGAATCACCACGACAGCAGCATGCATGA
TGGACCTCAGGAGATACCCCCTGGACGAGCAGAACTGCACTCTGGAAATTGAAAGCTATG
GCTACACCACGGATGACATTGAGTTTTACTGGCGAGGCGGNGACAAGGCTGTTACCGGAG
TGGAAAGGATTGAGCTCCCGCAGTTCTCCATCGTGGAGCACCGTCTGGTCTCGAGGAATG
TTGTCTTCGCCACAGGTGCCTATCCTCGACTGTCACTGAGCTNTCGGTTGAAGAGGACAT
TGGATACTTCATTCTTCAGACTATATGCCCTCTATCTGATACGATNCTGTCGNGGGTGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_021912 unedited
AGCTATGNACCGCGGCACGCATNCTAGTGTCGAGTTTTTTTTTTTTTTTTTCTTTAAAA
AGACTCATCTAAATAGTAAGTTAAGGTTGCGTCTATGAAACCGGTGCACCTTGTCTTGTT
TCTACGAGCTTTAAAAAGTCCAAATACTGATGAGGCTGTGGATCAGAAGGAACCAACAGT
GACTGTGTTTGCTGTCAGGTTGCCCTCCTTTGCCTCAAAGAACGGTCATGGGTCGTTGGG
TGACGCGTGGTGTGTACGGGTCATGTTCCTGCAGAATCCTATTCAGTCTAGGAGTAGTTG
GATGTGCTTATGAAATATGTCAGATACAGAAATAAAGGCATGAGGATGATTCTTAGTTTC
TGAAATTGAACAGTAGAAGTGTTTTAGCTTCAATCTTAATTTCTAGATAACAGAAAGTAG
TTACATCACATAAAGGAAAATATGACATCGCATGCTGCCATGATAGCAAGCGTAAGAAAC
AAAATCTTGGTAAATATACATATATATGCATATTATGCAAATATATTTTCTATTAACATA
CAATGTTATAAGAATGATAACATAACTGCAAGGGGGAAAATCATCCTAGATGGTTTTACC
TTAGAGTAACGAATAACCTGAGACGTCTATGCTTTCTGTTGGATATCAGGCCTAGAAATC
CATACGAGATGTAGAGCACATTTTCAGTGATTGAAATGTCACTGGCCAAACGTGTCACTG
TGTTCGCACATGACAGTGAAGCTGGATCCACTCCAAGTGAACAACAGATACAAACTACAC
ACTGTATTTTAGAGTACTTACAACGAGATGCCATTCACTTCCGATGAGTTTCAAAAGACG
TCGTTCAGACTCAACGTGGGATCTATCTATGTTCAGACACAGGTAAGCCACTGCCAGTGG
CTCACCCAGCCACTAACCATTGCAGAAACGTTGCCCGATGAAACATACCCTCACCGAGAA
GCCAGAAGCTTTGCTACTAACTGACGANG

**Restriction Sites:** NotI-NotI

**ACCN:** NM_021912

**Insert Size:** 3090 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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_021912.2, NP_068712.1 |
| **RefSeq Size:** | 2970 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:** | 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]<br>Transcript Variant: This variant (2) uses an alternate 5' terminal exon compared to variant 1. It encodes isoform 2, which is of the same length, but has a distinct N-terminus, compared to isoform 1. 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. |