

Product datasheet for **SC125325**

GABA A Receptor alpha 6 (GABRA6) (NM_000811) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor alpha 6 (GABRA6) (NM_000811) Human Untagged Clone
Tag:	Tag Free
Symbol:	GABA A Receptor alpha 6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125325 sequence for NM_000811 edited (data generated by NextGen Sequencing)

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ATGGCGTCGTCTCTGCCCTGGCTGTGCATTATTCTGTGGCTAGAAAATGCCCTAGGGAAA
CTCGAAGTTGAAGGCAACTTCTACTCAGAAAACGTCAGTCGGATCCTGGACAACCTTGCTT
GAAGGCTATGACAATCGGCTGCGGCCGGGATTTGGAGGTGCTGCTCACTGAAGTCAAACA
GACATTTATGTGACCAGTTTTGGGCCCGTGCAGATGTGGAGATGGAGTATACGATGGAT
GTTTTTTTCCGCCAGACCTGGACTGATGAGAGGTTGAAGTTTGGGGGCCAACTGAGATT
CTGAGTCTGAATAATTTGATGGTCAGTAAATCTGGACGCTGACACCTTTTTCAGAAAT
GGTAAAAAGTCCATTGCTCACAACATGACAACCTCTAATAAACTTTTCAAGATAATGCAG
AATGGAACCATTTATACACCATGAGGCTTACCATCAATGCTGACTGTCCCATGAGGCTG
GTTAATTTTCTATGGATGGGCATGCTTGTCCACTCAAGTTTGGGAGCTATGCTTATCCC
AAAAGTAAATCATATATACGTGGAAAAAAGGACCACTTTACTCAGTAGAAGTCCCAGAA
GAATCTTCAAGCCTTCTCCAGTATGATCTGATTGGACAAACAGTATCTAGTGAGACAATT
AAATCTAACACAGGTGAATACGTTATAATGACAGTTTACTTCCACTTGCAAAGGAAGATG
GGCTACTTCATGATACAGATATACACTCCTTGCAATATGACAGTCATTCTTTCCAGGTG
TCTTTCTGGATTAATAAGGAGTCCGTCCCAGCAAGAACTGTTTTTGGGATCACCCTGTT
TTAACTATGACCCTTTGAGCATCAGTGCCCGGCACTCTTTGCCAAAAGTGCATATGCC
ACTGCCATGGATTGGTTCATAGCTGTTTGTCTTTCGATTCGCTCTTCTGCTCTTATCGAG
TTCGCAGCTGTCAACTACTTTACCAATCTTCAGACACAGAAGGCCAAAAGGAAGGCACAG
TTTGCAGCCCCACCCACAGTGACAATATCAAAGCTACTGAACCTTTGGAAGCTGAGATT
GTTTTGCATCCTGACTCCAAATATCATCTGAAGAAAAGGATCACTTCTCTGTCTTTGCCA
ATAGTTTCATCTTCCGAGGCCAATAAAGTGCTCACGAGAGCGCCCATCTTACAATCAACA
CCTGTCACACCCCCACCACTCTCGCCAGCCTTTGGAGGCACCAAGTAAAATAGACCAGTAT
TCTCGAATTCTTCCCAGTTGCATTTGCAGGATTCAACCTTGTGTACTGGGTAGTTTAT
CTTTCAAAGATACAATGGAAGTGAGTAGCAGTGTGAATAG

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Clone variation with respect to NM_000811.2
951 g=>t;1344 c=>g



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000811 unedited</p> <pre>TAATACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGCCTCGTGCCGAATTCGGC ACGAGGCCAACTGAGTCAGTCAGAGGAGCCTGGGTGTCTGCAGGACATAATCTAAGACCA CAAACCACCTTGTTCACGTGAGAAGGAAACAAGAAAGAGGGAGCCAGGGGAATCTCTGC AAATTTTAGGCAACCTTTTATCTATTGGATTACTGACTTGAGGCAAACAAGGAACAGA GATATGAAGGGTTTGAAGATTTCTCCAGTTGATTGGCAGAGAAGAGCTGGCTAGCAGGG AGGACGACCCCTAGGAGGGTGAATTCGCATTTTCAGTGCCTGCAGGATGGCGTCGTCTCT GCCCTGGCTGTGCATTATTCTGTGGCTAGAAAATGCCCTAGGAAACTCGAAGTTGAAGG CAACTTCTACTCAGAAAACGTCAGTCGGATCCTGGACAACCTTGCTTGAAGGCTATGACAA TCGGCTGCGGCCGGGATTTGGAGGTGCTGCTCACTGAAGTCAAACAGACATTTATGTGAC CAGTTTTGGGCCCGTGTGAGATGGAGTATACGATGGATGTTTTTTCCGCCA GACCTGNACTGATGAGAGTTGAAGTTTGGGGGCCAACTGAGATTCTGAGTCTGAATAA TTTGATGGTCAGTAAAATCTGGACGCTGACACCTTTTTCAGAAATGGTAAAAAGTCCAT TGCTCACAAACATGACAACTCCTAATAAACTCTTCAGATAATGCAGAATGGGACCATTTA TACACCATGANGGCTTTACCATCATGCTGACTGTCCCATGAGGCTGGTTAACTTTTCTAT GGATGGGCATGCTTGTCCACTCAAGTTGGGAGCTATGCTTATCCAAAGTGAATCATATTA CGTGAAAAAGGACACTTACTCAGTAGAGTCCCAGAGT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000811 unedited</p> <pre>TATGGAACGGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTATTGGTG TTTTATTTAGTGTTATAATTGGAATGTGGAACACAAGATAACCATAGTCATAATAT ACAAGGCTTCTTATAATGAGTACTTTTTCTACAACCTCATAGAATTATGGTAAGTGTA TTATTTTAAAAGGAGAATTTAGTAGGATAAAAACACTGAATTTTAGTCCAACTACAGCT ATGTACATATGCATACATAATTTATGAGCTATGTATAATTTATATGTATACAAACCCAC ATTTTATTGAGGTAAAAGAGCACAGCGAGTTAAAACAAATGGCTAAGCTCAATGTAGG CTTTACAATGCCACTGAAAGCCATTTTACTAGCATAAAGGCCCTCCAACATGCTGGTATTA ACCTACTGATAAATTTAGACTGTATTTATATTTGCCCTCTCGGGAACCTAAGCCAAAA TAAACATATTTAAGGCAACCTTTGGAAGTGTGAGCATTCTTATTTTATCTGCCTGTG GTAAATGTTATTTACAGTGACAATTAATAACTGAACAATGGAAGACAAAAGTTGACAA ATTCATCTTGAAACCATTTTCATCCTCATAAAGTTTTTCTAACATACAGAAAAGTCATA TTTTTCAGCAATCTTCAACTTTCTATTTTGAGGAGTAGGATTATTGCTTTTTTGGCCACA CATGCTTACGGAAGCTGCGTTACAGATTTCCAATTTGATTTTCATGTTCTGAGAAGCATCT ACACAAGTCTCAATGCTATTTTTTTAGAAAACATAGGAAACAGAAAACCGAAGCTTATAG ATTTACAGTTGGCCTGGCCGCAAGCTATTCACACTGCTACTCACTTNCATTGGATCTTTG GAAAGATAAACTACAGTACACAGGGTTGATCCTGCAATGCACTGGGAAGAGATCGAGAT ACTGTCTATTTACTGTGCTCAAAGCG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_000811
Insert Size:	2550 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:	<u>NM_000811.1, NP_000802.1</u>
RefSeq Size:	1732 bp
RefSeq ORF:	1362 bp
Locus ID:	2559
UniProt ID:	<u>Q16445</u>
Cytogenetics:	5q34
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:	GABA is the major inhibitory neurotransmitter in the mammalian brain where it acts at GABA-A receptors, which are ligand-gated chloride channels. Chloride conductance of these channels can be modulated by agents such as benzodiazepines that bind to the GABA-A receptor. At least 16 distinct subunits of GABA-A receptors have been identified. [provided by RefSeq, Jul 2008]