

Product datasheet for **SC123560**

GABRA2 (BC022488) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABRA2 (BC022488) Human Untagged Clone
Tag:	Tag Free
Symbol:	GABRA2
Synonyms:	FLJ97076; gamma-aminobutyric acid (GABA) A receptor, alpha 2; gamma-aminobutyric acid A receptor, alpha 2; OTTHUMP00000125269
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for BC022488 edited
AAGCGGCCTCGGGGAGCAGCCGAGGCTGCGCGTGGGCTCCGCTCCTCCGGCGAGGTGTG
GGCGAGGGGAGCGGGCGCTCCGAGCGCACCCAGGCGCCGACGCGCCCGGGTCTGCGCCG
CTGCTAGTGCCAGGCGGGCGACGAGCGGGTATGAAGACAAAATTGAACATCTACAAC
ATGCAGTTCCTGCTTTTTGTTTTCTTGGTGTGGACCCTGCCAGTTGGTGTGGCTAAC
ATCCAAGAAGATGAGGCTAAAAATAACATTACCATCTTACGAGAATTCTTGACAGACTT
CTGGATGGTTACGATAATCGGCTTAGACCAGGACTGGGAGACAGTATTACTGAAGTCTTC
ACTAACATCTACGTGACCAGTTTTGGCCCTGTCTCAGATACAGATATGGAATATACAATT
GATGTTTTCTTCGACAAAATGAAAAGATGAACGTTTAAAAATTTAAAGTCTATGAAT
ATCCTTCGACTAAACAATTTAATGGCTAGCAAAATCTGGACTCCAGATACCTTTTTTCAC
AATGGGAAAAAATCAGCAGCTCATAATATGACAATGCCAAATAAGTTGCTTCGAATTCAG
GATGATGGGACTCTGCTGTATACCATGAGGCTTACAGTTCAAGCTGAATGCCCAATGCAC
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CTGTTAAGTTCATGGTTTAAACCCACACTGCATTATTATAAAGAGATTAGAAAAAGAAA
ATGGGCATTAATTTTACTTATTATAGAATCCAGGCTCTATCAATGAATTGAATCCTCTT
CACCTGTTCCAGTCTCTGCTGATTTATTGTAAGCCCGGATAGCATTTTTTTAAATCT
TTCCCATGTTGCATGGAATAAATATGTCGGTGTGGAATGCTTAGGAATTTTAAATGTT
CATATGGTCTAAAAGGGAAAAGTTATTTGTTTTTAAAGATTAACCTCTTTTGAGATTATTG
CTGTCCATATTTAGGTTTCAAGTACTGAATCTAATGGGAGATTTGTGATTGATATAACA
GCTGTTTCCTTTCATACTCTGTAGATTATGTATCTGCCTAAAGGGAGGCTTTGAATGTAT
CATAATCATCTATATTCTTAATAATGGTAAAAAGTTGTATTACAGAGGATATCTTTAACAT
TGATCAACCTAAATGCTTCTTTTATTAATTTGGATTAACATACTTGCAGATTTGATTT
CTTTTTCAGTTATTTGAATATATTTTTTCAATTTCTATGACCATGTTACAGTTTAAATATA
CAAGCAGTAAATGTTATAGTTTAAAGTCTTGGTCTTTTTCTTAATTTTGAAGCCATA
GAAATTTTAAATAAGACTGATTATTTTATTTTATAAGTTGTGTTTTCCCTACTAACG
GAGCCAACAAATAAATATTTAAAGGAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC022488 unedited GCCATCCGGTTTGATAAACACTCATGATGGGTGCGGCAAAAAACCTCGNCCCTTCCCGGN ACCATGACTTTTGAGCCTCCACACCAAAGCGGAAGGGCGGGCCCTACTGCATAAGATCCA AGGGAACGAGCTGGAGCCCTGAACCGTCCGAGCTCAAGATCCCCCTGGAGCGGCCCT GGGCGAGGTGTACCTGGACAGCAGCAAGCCCGCGTGTACTTTTTTTTCGAGGGCGCCG CTACGAGTTGGGGCGGGCGCCGATAATTCGTATAGCATACATTATACGAAGTTATGG ATCAGGCCAAATCGGCCGAGCTCGAATTTCGTGAGAGCGGAAGCGGCCTCGGGGAGCAGC CCGAGGCTGCGCGTGGGCTCCGCTCCTCCGGCGAGGTGTGGGCGAGGGGAGCGGCCCTCC GAGCGCACCCAGGCGCCCGACGCGCCCGGGTCTGCGCCGCTGCTAGTCCAGGCGGGCG ACGAGCGGCGGTGATGAAGACAAAATTGAACATCTACAACATGCAGTTCCCTGCTTTTTGT TTTCTTGGTGTGGGACCCTGCCAGTTGGTGTGGCTAACATCCAAGAAGATGAGGCTAA AAATAACATTACCCATCTGTACGAAAATCTTGAACAGACTTTTGGGTGGTTACGATAAT TCGGTTAGAACAGGACTGGGGAGAAAGTAACTGGAGTTCTTTCCTAAACACTACGTGG ACCCGGTTTTGGCCCTGGTTTTTCAGAAACCGAATTTGGGAAATTACAAATTGATGGGTTT TCTTTCGCCACAAAAGGGGGAGAAAGAGCCGTTAAAAATTAAAGCGCCCTAGAAAATC CCTCTCGACAAAACAATTTATGGGGTGGAGAAAATTTGGGGCGCCCGATACCTTTTTT TCAAAAGGGGAGAAAATCCCGGCCCT
Restriction Sites:	Please inquire
ACCN:	BC022488
Insert Size:	2381 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:	BC022488.1 , AAH22488.1
RefSeq Size:	2381 bp
RefSeq ORF:	1101 bp
Locus ID:	2555
Cytogenetics:	4p12
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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]