

Product datasheet for SC336229

GABRA2 (NM_001286827) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABRA2 (NM_001286827) Human Untagged Clone
Tag:	Tag Free
Symbol:	GABRA2
Synonyms:	DEE78; EIEE78
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC336229 representing NM_001286827. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGAGGCTAAAAATAACATTACCATCTTTACGAGAATCTTGACAGACTTCTGGATGTTACGATAATC
GGCTTAGACCAGGACTGGGAGGAATATACAATTGATGTTTTCTTCGACAAAAATGGAAAGATGAACGT
TAAAAATTTAAAGGTCTATGAATATCCTTCGACTAAACAATTTAATGGCTAGCAAAATCTGGACTCCA
GATACCTTTTTTCACAATGGGAAAAATCAGTAGCTCATAATATGACAATGCCAAATAAGTTGCTTCGA
ATTCAGGATGATGGGACTCTGCTGTATACCATGAGGCTTACAGTTCAAGCTGAATGCCAATGCCTTG
GAGGATTTCCCAATGGATGCTCATTTCATGCTCCTGAAATTTGGCAGCTATGCATATACTTCCAGAG
GTCACCTTATATTTGGACTTACAATGCATCTGATTCAAGTACAGTTGCTCCTGATGGCTCTAGGTTAAAT
CAATATGACCTGCTGGGCAATCAATCGGAAAGGAGACAATTAATCCAGTACAGGTGAATATACTGTA
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ATGACTGTCATTCTCTCCAAGTTTCAATCTGGCTTAACAGAGAATCTGTGCCTGCAAGAAGTGTGTTT
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TATGCAACTGCCATGGACTGGTTTATTGCTGTTGTTATGCATTTGTGTTCTCTGCCCTAATTGAATTT
GCAACTGTTAATTACTTCACCAAAAGAGGATGGGCTTGGGATGGGAAGAGTGTAGTAAATGACAAGTCC
CCTTCAATAAAAGCTGAAGGCATTACATTAACATAACAACCTCAGTCAAAGCAATTTCTCAAGGAGTAAG
CTAATATGGTCCAAGTATATAGCTTTCTCATGGCCAGTTTATTCCAAGAAAAGACTTTAGAGTACTTA
GAGAAGTGGATGGACTGTTTAACTTCAAACAATCTTCTAAAAAAGAAAAGGCTTCCGTTATGATACAG
AACACGCTTATGCAGTGGCTGTTGCCAATTATGCCCGAATCTTTCAAAGATCCAGTTCTCTCCACC
ATCTCCAAGAGTGCAACCAGCCAGAACCACAAGAAGCCAGAAAACAAGCCAGCTGAAGCAAAGAAA
ACTTTCAACAGTGTAGCAAAATGACAGAATGTCCAGAATAGTTTTTCCAGTTTTGTTGGTACCTTT
AATTTAGTTTACTGGGCTACATATTTAAACAGAGAACCTGTATTAGGGGTCAGTCTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001286827
Insert Size:	1371 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_001286827.1
RefSeq Size:	2538 bp
RefSeq ORF:	1371 bp
Locus ID:	2555
UniProt ID:	P47869
Cytogenetics:	4p12
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	52.1 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an alternate exon in the 5' end and contains an alternate in-frame exon in the 3' end, which leads to the use of a downstream start codon compared to variant 1. The resulting isoform (b) has a shorter and distinct N-terminus and contains an alternate segment compared to isoform a. 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>