

## Product datasheet for **SC323073**

### GABA A Receptor alpha 1 (GABRA1) (NM\_001127644) Human Untagged Clone

#### Product data:

|                      |   |
|----------------------|---|
| Product Type:        | Expression Plasmids   |
| Product Name:        | GABA A Receptor alpha 1 (GABRA1) (NM_001127644) Human Untagged Clone  |
| Tag:                 | Tag Free  |
| Symbol:              | GABRA1  |
| Synonyms:            | DEE19; ECA4; EIEE19; EJM; EJM5  |
| Vector:              | <u>pCMV6 series</u>   |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_001127644, the custom clone sequence may differ by one or more nucleotides<br>ATGAGGAAAAGTCCAGGTCTGTCTGACTGTCTTTGGCCTGGATCCTCCTTCTGAGCACA<br>CTGACTGGAAGAAGCTATGGACAGCCGTCATTACAAGATGAACTTAAAGACAATACCACT<br>GTCTTACCAGGATTTTGGACAGACTCCTAGATGGTTATGACAATCGCCTGAGACCAGGA<br>TTGGGAGAGCGTGAACCGAAGTGAAGACTGATATCTTCGTCACCAGTTTCGGACCCGTT<br>TCAGACCATGATATGGAATATACAATAGATGTATTTTTCCGTCAAAGCTGGAAGGATGAA<br>AGGTTAAAATTTAAAGGACCTATGACAGTCTCCGGTTAAATAACCTAATGGCAAGTAAA<br>ATCTGGACTCCGGACACATTTTTCCACAATGGAAGAAGTCAGTGGCCCAACATGACC<br>ATGCCCAACAACTCCTGCGGATCACAGAGGATGGCACCTTGCTGTACACCATGAGGCTG<br>ACAGTGAGAGCTGAATGTCCGATGCATTTGGAGGACTTCCTATGGATGCCCATGCTTGC<br>CCACTAAAATTTGGAAGTTATGCTTATACAAGAGCAGAAGTTGTTTATGAATGGACCAGA<br>GAGCCAGCACGCTCAGTGGTTGTAGCAGAAGATGGATCACGTCTAAACCAGTATGACCTT<br>CTTGGACAAAACAGTAGACTCTGGAATTGTCCAGTCAAGTACAGGAGAATATGTTGTTATG<br>ACCACTCATTTCCACTTGAAGAGAAAGATTGGCTACTTTGTTATTCAAACATACCTGCCA<br>TGCATAATGACAGTGATTCTCTCACAAGTCTCCTTCTGGCTCAACAGAGAGTCTGTACCA<br>GCAAGAAGTGTCTTTGGAGTAACAAGTGTGCTCACCATGACAACATTGAGCATCAGTGCC<br>AGAAACTCCCTCCCTAAGGTGGCTTATGCAACAGCTATGGATTGGTTTATTGCCGTGTGC<br>TATGCCTTTGTGTTCTCAGCTCTGATTGAGTTGCCACAGTAAACTATTTCACTAAGAGA<br>GGTTATGCATGGGATGGCAAAAGTGTGGTTCCAGAAAAGCCAAAGAAAGTAAAGGATCCT<br>CTTATTAAGAAAAACAACACTTACGCTCCAACAGCAACCAGCTACACCCCTAATTTGGCC<br>AGGGGCGACCCGGGCTTAGCCACCATTGCTAAAAGTGCAACCATAGAACCTAAAGAGGTC<br>AAGCCCGAAAACAAACCACAGAACCAAGAAAACCTTTAACAGTGTGAGCAAAATTGAC<br>CGACTGTCAAGAATAGCCTTCCCGCTGCTATTTGGAATCTTTAACTTAGTCTACTGGCT<br>ACGTATTTAAACAGAGAGCCTCAGCTAAAAGCCCCACACCACATCAA |
| Restriction Sites:   | Please inquire  |
| ACCN:                | NM_001127644  |



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|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | 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).   |
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| <b>RefSeq:</b>                | <u>NM_001127644.1, NP_001121116.1</u>  |
| <b>RefSeq Size:</b>           | 4412 bp  |
| <b>RefSeq ORF:</b>            | 1371 bp  |
| <b>Locus ID:</b>              | 2554   |
| <b>UniProt ID:</b>            | <u>P14867</u>  |
| <b>Cytogenetics:</b>          | 5q34   |
| <b>Protein Families:</b>      | Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane  |
| <b>Protein Pathways:</b>      | Neuroactive ligand-receptor interaction  |
| <b>Gene Summary:</b>          | <p>This gene encodes a gamma-aminobutyric acid (GABA) receptor. 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. GABA-A receptors are pentameric, consisting of proteins from several subunit classes: alpha, beta, gamma, delta and rho. Mutations in this gene cause juvenile myoclonic epilepsy and childhood absence epilepsy type 4. Multiple transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, compared to variant 1. Variants 1-7 encode the same protein.</p> |