

## Product datasheet for **RC218242**

### **GABRE (NM\_021984) Human Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | GABRE (NM_021984) Human Tagged ORF Clone  |
| Tag:                      | Myc-DDK   |
| Symbol:                   | GABRE   |
| Synonyms:                 | GABA(A) receptor; gamma-aminobutyric acid (GABA) A receptor, epsilon;<br>OTTHUMP00000025892 |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |



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**ORF Nucleotide Sequence:**

>RC218242 representing NM\_021984  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAATACACCATTGACATCATCTTCTCCAGACCTGGTACGACGAACGCCTCTGTTACAACGACACCT  
 TTGAGTCTCTTGTCTGAATGGCAATGTGGTGAGCCAGCTATGGATCCCGGACACCTTTTTAGGAATTC  
 TAAGAGGACCCACGAGCATGAGATCACCATGCCAACCAGATGGTCCGCATCTACAAGGATGGCAAGGTG  
 TTGTACACAATTAGGATGACCATTGATGCCGGATGCTCACTCCACATGCTCAGATTTCCAATGGATTCTC  
 ACTCTTGCCCTCTATCTTCTCTAGCTTTTCTATCCTGAGAATGAGATGATCTACAAGTGGGAAAAATTT  
 CAAGCTTGAAATCAATGAGAAGAACTCTGGAAGCTCTCCAGTTTGATTTTACAGGAGTGAGCAACAAA  
 ACTGAAATAATCACAACCCAGTTGGTGACTTCATGGTCATGACGATTTTCTTCAATGTGAGCAGGCGGT  
 TTGGCTATGTTGCCTTTCAAACATATGCCCTTCTCCGTGACCAGGATGCTCTCCTGGGTTTCTTTTG  
 GATCAAGACAGAGTCTGCTCCAGCCCGACCTCTTAGGGATCACCTCTGTTCTGACCATGACCAGTTG  
 GGCACCTTTTCTCGTAAGAATTTCCCGCGTGTCTCCTATATCACAGCCTTGATTCTATATCGCCATCT  
 GCTTCGCTTCTGCTTCTGCGCTCTGTTGGAGTTGCTGTGCTCAACTTCTGATCTACAACCAGACAAA  
 AGCCCATGCTTCTCCTAACTCCGCCATCCTCGTATCAATAGCCGTGCCATGCCCGTACCCGTGCACGT  
 TCCCGAGCCTGTGCCCGCAACATCAGGAAGCTTTTGTGTGCCAGATTGTCAACTGAGGGGAAGTGATG  
 GAGAGGAGCGCCCGTCTTGCTCAGCCAGCAGCCCTAGCCAGGTAGCCCTGAGGGTCCCCGCAGCCT  
 CTGCTCCAAGCTGGCCTGCTGTGAGTGGTGCAAGCGTTTAAAGAAGTACTTCTGCATGGTCCCCGATTGT  
 GAGGGCAGTACCTGGCAGCAGGGCCGCTCTGCATCCATGTCTACCGCCTGGATAACTACTCGAGAGTTG  
 TTTTCCAGTGACTTTCTTCTTCAATGTGCTCTACTGGCTTGTTCCTTAACTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC218242 representing NM\_021984  
 Red=Cloning site Green=Tags(s)

MEYTIDIIFSQTWYDERLCYNDTFESLVLNGNVVSQLWIPDFFRNSKRTHEHEITMPNQMVRIYKDGKV  
 LYTIRMTIDAGCSLHMLRFPMDSHSCLPSSFSSYPENEMIKWENFKLEINEKNSWKLQFDFDTGVSNK  
 TEIITTPVGFDMVTIFFNVSRRFYVAFQNYVPSSVTMLSWVSFWIKTESAPARTSLGITSVLTM TTL  
 GTFSRKNFPRVSYITALDFYIAICFVFCALLEFAVLNFLIYNQTKAHASPKLRHPRINSRAHARTRAR  
 SRACARQHQEAFCIVTTEGSDGEERPSCSAQQPPSPGSPEGPRSLCSKLACCEWCKRFKKYFCMPVDC  
 EGSTWQQGRLCIHVYRLDNYSRVVFPVTFVFFNVLYWLVCLNL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8056\\_g07.zip](https://cdn.origene.com/chromatograms/mk8056_g07.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_021984

**ORF Size:** 1179 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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\\_021984.2](#), [NP\\_068819.2](#)

**RefSeq Size:** 3345 bp

**RefSeq ORF:** 1181 bp

**Locus ID:** 2564

**Cytogenetics:** Xq28

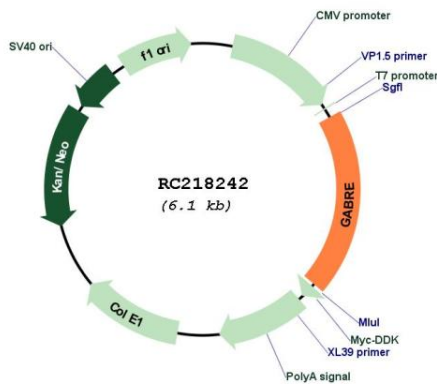
**Protein Families:** Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

**MW:** 46.2 kDa

**Gene Summary:** The product of this gene belongs to the ligand-gated ionic channel (TC 1.A.9) family. It encodes the gamma-aminobutyric acid (GABA) A receptor which is a multisubunit chloride channel that mediates the fastest inhibitory synaptic transmission in the central nervous system. This gene encodes an epsilon subunit. It is mapped to chromosome Xq28 in a cluster comprised of genes encoding alpha 3, beta 4 and theta subunits of the same receptor. Alternatively spliced transcript variants have been identified, but only one is thought to encode a protein. [provided by RefSeq, Oct 2008]

**Product images:**



Circular map for RC218242