

Product datasheet for **RC223410**

GABA A Receptor alpha 6 (GABRA6) (NM_000811) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor alpha 6 (GABRA6) (NM_000811) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GABA A Receptor alpha 6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC223410 representing NM_000811
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTCGTCTCTGCCCTGGCTGTGCATTATTCTGTGGCTAGAAAATGCCCTAGGGAACTCGAAGTTG
 AAGGCAACTTCTACTCAGAAAACGTCAGTCGGATCCTGGACAACCTGCTTGAAGGCTATGACAATCGGCT
 GCGGCCGGGATTTGGAGGTGCTGTCACTGAAGTCAAACAGACATTTATGTGACCAGTTTTGGGCCCGTG
 TCAGATGTGGAGATGGAGTATACGATGGATGTTTTTTCCGCCAGACCTGGACTGATGAGAGTTGAAGT
 TTGGGGGCCAACTGAGATTCTGAGTCTGAATAATTTGATGGTCAGTAAAATCTGGACGCTGACACCTT
 TTTCAGAAATGGTAAAAAGTCCATTGCTCACAACATGACAACCTAATAAACTCTCAGAATAATGCAG
 AATGGAACATTTTATACACCATGAGGCTTACCATCAATGCTGACTGTCCATGAGGCTGGTTAACTTTC
 CTATGGATGGGCATGCTGTCCACTCAAGTTTGGGAGCTATGCTTATCCCAAAAGTGAAATCATATAC
 GTGAAAAAAGGACCACCTTACTCAGTAGAAGTCCAGAAGAATCTCAAGCCTTCTCCAGTATGATCTG
 ATTTGGACAAACAGTATCTAGTGAGACAATTAATCTAACACAGGTGAATACGTTATAATGACAGTTTACT
 TCCACTTGCAAAGGAAGATGGGCTACTTCATGATACAGATATACACTCCTTGCAATATGACAGTCATTCT
 TTCCCAGGTGCTTTCTGGATTAATAAGGAGTCCGTCCCAGCAAGAACTGTTTTGGGATCACCAGTGT
 TTAATATGACCACTTTGAGCATCAGTGCCCGCACTCTTTGCCAAAAGTGCATATGCCACTGCCATGG
 ATTTGGTTCATAGCTGTTTGTCTTGCATTCGTCTTCTGCTCTTATCGAGTTCGCAGCTGTCAACTACT
 TACCAATCTTCAGACACAGAAGGCCAAAAGGAAGGCACAGTTTGCAGCCCCACCCACAGTGACAATATCA
 AAAGCTACTGAACCTTTGAAGCTGAGATTGTTTTGCATCCTGACTCCAATATCATCTGAAGAAAAGGA
 TCACTTCTGTCTTTGCCAATAGTTTCATCTCCGAGGCCAATAAAGTGCTCAGGAGGCCCATCTT
 ACAATCAACACCTGTACACCCCCACCCTCTCGCCAGCCTTTGGAGGCCACCAAGTAAAAATAGACCAGTAT
 TCTCGAATTCTTCCAGTTGCATTTGCAGGATTCAACCTTGTGTACTGGGTAGTTTATCTTTCCAAG
 ATACAATGGAAGTGAGTAGCAGTGTGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223410 representing NM_000811
 Red=Cloning site Green=Tags(s)

MASSLPWLCIILWLENALGKLEVEGNFYSENVSRILDNLLEGYDNRLRPGFVGAVTEVKTDIYVTSFGPV
 SDVEMEYTMDFVFRQWTDERLKFGGPTEILSLNNLMVSKIWTPDTFFRNGKKSIAHNMTTPNKLFRIMQ
 NGTILYTMRLTINADCPMRLVNFPMGDHACPLKFGSYAYPKSEIIYTWKKGPLYSEVPEESSLLQYDL
 IGQTVSSETIKSNTGEYVIMTVYFHLQRKMGYFMIQIYTPCIMTVILSQVSWINKESVPARTVFGITTV
 LTMTTLSISARHSLPKVSYATAMDWFIIVCFVFSALIEFAAVNYFTNLQTKAKRKAQFAAPPTVTIS
 KATEPLEAEIVLHPDSKYHLKKRITSLSLPIVSSSEANKVLRAPILQSTPVTTPPLSPAFGGTSKIDQY
 SRILFPVAFAGFNLVYVVVYLSKDTMEVSSSVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2423_c03.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_000811

ORF Size: 1359 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_000811.3](#)

RefSeq Size: 1732 bp

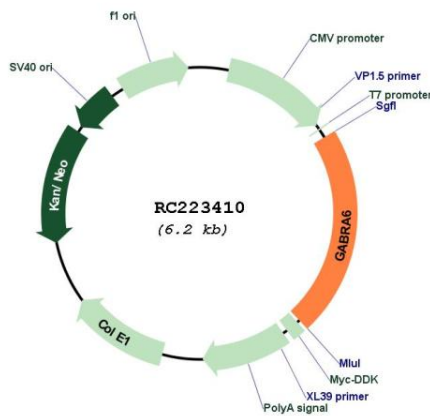
RefSeq ORF: 1362 bp

Locus ID: 2559

UniProt ID: [Q16445](#)

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
MW: 51.02 kDa
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]

Product images:



Circular map for RC223410