

Product datasheet for **RG223410**

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:	TurboGFP
Symbol:	GABA A Receptor alpha 6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223410 representing NM_000811 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCGTCTCTGCCCTGGCTGTGCATTATTCTGTGGCTAGAAAAATGCCCTAGGGAACTCGAAGTTG
AAGGCACTTCTACTCAGAAAACGTCAGTCGGATCCTGGACAACCTGCTTGAAGGCTATGACAATCGGCT
GCGGCCGGGATTTGGAGGTGCTGCTCACTGAAGTCAAAACAGACATTTATGTGACCACTTTGGGCCCGTG
TCAGATGTGGAGATGGAGTATACGATGGATGTTTTTTCCGCCAGACCTGGACTGATGAGAGTTGAAGT
TTGGGGGCCCACTGAGATCTGAGTCTGAATAATTTGATGGTCAGTAAAATCTGGACGCCTGACACTT
TTTCAGAAAATGGTAAAAAGTCCATTGCTCACAAACATGACAACCTCCTAATAAACTCTCAGAATAATGCAG
AATGGAACCATTTTATACACCATGAGGCTTACCATCAATGCTGACTGTCCATGAGGCTGGTTAACTTTC
CTATGGATGGGCATGCTTGTCCACTCAAGTTTGGGAGCTATGCTTATCCCAAAAGTAAAATCATATATAC
GTGGAAAAAAGGACCACTTACTCAGTAGAAGTCCCAGAAGAATCTTCAAGCCTTCTCCAGTATGATCTG
ATTGGACAAACAGTATCTAGTGAGACAATTAATCTAACACAGGTGAATACGTTAATGACAGTTTACT
TCCACTTGCAAAGGAAGATGGGCTACTTCATGATACAGATATACACTCCTTGCAATATGACAGTCATTCT
TTCCAGGTGCTTTCTGGATTAATAAGGAGTCCGTCAGCAAGAACTGTTTTGGGATCACCAGTGT
TTAACTATGACCACTTTGAGCATCAGTGCCCGGCACTTTTGCCAAAAGTGCATATGCCACTGCCATGG
ATTGGTTCATAGCTGTTTGCATTCGTTCTCTGCTCTTATCGAGTTCGCAGCTGTCAACTACTT
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AAAGTACTGAACCTTTGGAAGCTGAGATTGTTTTGCATCCTGACTCCAATATCATCTGAAGAAAAGGA
TCACTTCTGTCTTTGCCAATAGTTTCATCTCCGAGGCCAATAAAGTGCTCACGAGAGCGCCCATCTT
ACAATCAACACCTGTACACCCCCCACTCTCGCCAGCCTTTGGAGGCACCAAGTAAAATAGACCAGTAT
TCTCGAATTCTTCCAGTTGCATTTGCAGGATCAACCTTGTGTACTGGGTAGTTTATCTTTCCAAAG
ATACAATGGAAGTGAGTAGCAGTGTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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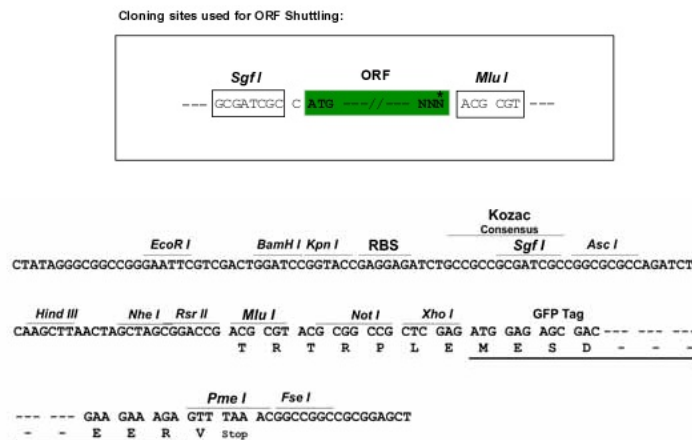
Protein Sequence: >RG223410 representing NM_000811
Red=Cloning site Green=Tags(s)

MASSLPWLCIILWLENALGKLEVEGNFYSENVSRILDNLLLEGYDNRLRPGFGGAVTEVKTDIYVTSFGPV
SDVEMEYTMDFVFRQWTDERLKFGGPTEILSLNLMVSKIWTPDTFFRNGKKSIAHNMTTPNKLFRIMQ
NGTILYTMRLTINADCPMRLVNFPMGDHACPLKFGSYAYPKSEIIYTWKKGPLYSVEVPESSLLQYDL
IGQTVSSETIKSNTGEYVIMTVYFHLQRKMGYFMIQIYTPCIMTVILSQVSWINKESVPARTVFGITTV
LTMTTLSISARHSLPKVSYATAMDWFIIVCFVAFVFSALIEFAAVNYFTNLQTKAKRKAQFAAPPTVTIS
KATEPLEAEIVLHPDSKYHLKKRITSLSLPIVSSSEANKVLTRAPILQSTPVTTPPLSPAFGGTSKIDQY
SRILFPVAFAGFNLVYVVVYLSKDTMEVSSSVE

TRTRPLE - GFP Tag - V

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_000811.1](#), [NP_000802.1](#)

RefSeq Size: 1732 bp

RefSeq ORF: 1362 bp

Locus ID: 2559

UniProt ID: [Q16445](#)

Cytogenetics: 5q34

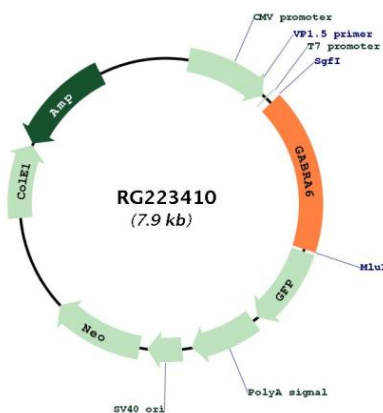
Domains: Neur_chan_memb, Neur_chan_LBD

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

Protein Pathways: Neuroactive ligand-receptor interaction

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 RG223410