

Product datasheet for **RC234236**

GABA A Receptor alpha 4 (GABRA4) (NM_001204267) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor alpha 4 (GABRA4) (NM_001204267) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GABA A Receptor alpha 4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234236 representing NM_001204267
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTGCAAAGATGGTTTCTGCCAAGAAGTTTAAACGAATCCCCAGGACAGAACCAAAAGGAGGAGAAAT
 TGTGCACAGAAAATTTACCCGCATCCTGGACAGTTTGCTCGATGGTTATGACAACAGGCTGCGTCTGG
 ATTTGGGGTCTCTTACAGAAGTGAAGTACATATATGTCACCGACTTTGGACTGTTTCTGATGTT
 GAAATGGAATACACAATGGATGTGTTCTTCAGGCAGACATGGATTGACAAAAGATTTAAATATGACGGCC
 CCATTGAAATTTGAGATTGAACAATATGATGGTAACGAAAGTGTGGACCCCTGATACTTTCTTCAGGAA
 TGGAAAGAAATCTGTCTCACATAATATGACAGCTCCAAATAAGCTTTTTAGAATTATGAGAAATGGTACT
 ATTTTATACACAATGAGACTCACATAAGTGGGAGTGTCCATGAGATTGGTGGATTTCCCATGGATG
 GTCATGCATGCCCTTTGAAATTCGGGAGTTATGCCTATCCAAAGAGTGAGATGATCTATACCTGGACAAA
 AGGTCCTGAGAAATCAGTTGAAGTTCGGAAGAGTCTTCCAGCTTAGTTCAATATGATTTGATTGGCAA
 ACCGTATCAAGTAAACCATCAAATCAATTACGGGAATAACAACCTGCCTCACCATGACCACACTAAGCA
 TCAGTGACACGACATTCTTTGCCCAAAGTGTCTATGCTACCGCCATGGACTGGTTCATAGCTGTCTGCTT
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 AAGCCCCCTCTGCAGAATACAAATGCCAATTTGAACATGAGAAAAAGAACAATGCTTTGGTTCACCTGGA
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 AATACCATAGGGGCTACTGGGAAGTTGTGAGCTACTCCTCCTCCATCGGCTCCACCACCTTCTGGATCTG
 GCACAAGTAAATAGACAAATATGCCCGTATTCTCTTCCAGTACATTTGGGGCATTAAACATGGTTTA
 TTGGTTGTTTATTTATCTAAGGACACTATGGAGAAATCAGAAAGTCTAATG

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Protein Sequence:

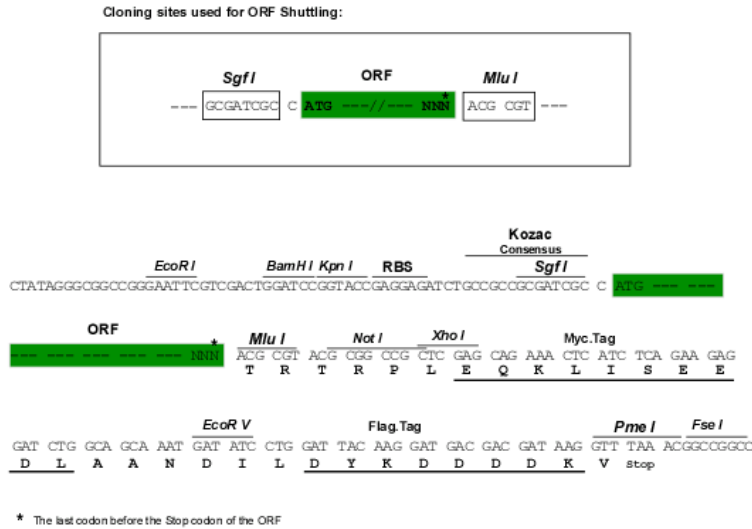
>RC234236 representing NM_001204267
 Red=Cloning site Green=Tags(s)

MLQRWFLPRSLNESPGNQKKEELCTENFTRILDSLDDGYDNRLRPGFPGVPTEVKTDIYVTSFGPVSDV
 EMEYTMDFFRQTWIDKRLKYDGPPIELRLNMMVTKVWTPDTFFRNGKKSVMHNTAPNKLFRIMRNGT
 ILYTMRLTISAECMRLVDFPMDGHACPLKFGSYAYPKSEMIYTWKGPESVVEPKESSLVQYDLIGQ
 TVSSETIKSITGITTVLTMTTLSISARHSLPKVSYATAMDWFIAVCFVFSALIEFAAVNYFTNIQMEK
 AKRKTSKPPQEVPAAPVQREKHPEAPLQNTNANLNMKRTNALVHSESDVGNRTEVGNHSSKSSTVVQES
 SKGTPRSYLASSPNPFSRANAETISAARALPSASPTSI RTGYMPRKASVGSASTRHVFGSRLQRKTTV
 NTIGATGKLSATPPPSAPPPSGSGTSKIDKYARILFPVTFGAFNMVYVWVYLSKDTMEKSESLM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001204267

ORF Size: 1452 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_001204267.2](#)

RefSeq Size: 10864 bp

RefSeq ORF: 1455 bp

Locus ID: 2557

UniProt ID: [P48169](#)

Cytogenetics: 4p12

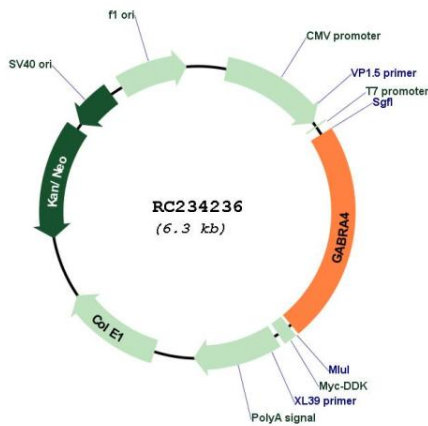
Protein Families: Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

MW: 54.3 kDa

Gene Summary: Gamma-aminobutyric acid (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. This gene encodes subunit alpha-4, which is involved in the etiology of autism and eventually increases autism risk through interaction with another subunit, gamma-aminobutyric acid receptor beta-1 (GABRB1). Alternatively spliced transcript variants encoding different isoforms have been found in this gene.[provided by RefSeq, Feb 2011]

Product images:



Circular map for RC234236