

Product datasheet for **RC234371**

GABA A Receptor alpha 4 (GABRA4) (NM_001204266) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor alpha 4 (GABRA4) (NM_001204266) 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:

>RC234371 representing NM_001204266
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGCAAAGATGGTTTCTGCCAAGAAGTTTAAACGAATCCCCAGGACAGAACCAAAAGGAGGAGAAAT
 TGTGCACAGAAAATTTACCCGCATCCTGGACAGTTTGCTCGATGGTTATGACAACAGGCTGCGTCTCGG
 ATTTGGGGTCTGTTACAGAAGTGAAAACGACATATATGTCACCCAGCTTTGGACCTGTTTCTGATGTT
 GAAATGGAATACACAATGGATGTGTTCTTCAGGCAGACATGGATTGACAAAAGATTAAAATATGACGGCC
 CCATTGAAATTTGAGATTGAACAATATGATGGTAACGAAAGTGTGGACCCCTGATACTTTCTTCAGGAA
 TGGAAAGAAATCTGTCTCACATAATATGACAGCTCCAAAATAAGCTTTTTAGAATTATGAGAAATGGTACT
 ATTTTATACACAATGAGACTCACATAAGTGCGGAGTGTCCCATGAGATTGGTGGATTTCCCATGGATG
 GTCATGCATGCCCTTTGAAATTCGGGAGTTATGCCTATCCAAAGAGTGAGATGATCTATACCTGGACAAA
 AGGTCCTGAGAAATCAGTTGAAGTTCGGAAGAGTCTTCCAGCTTAGTTCAATATGATTTGATTGGGCAA
 ACCGTATCAAGTAAACCATCAAATCAATTACGGGTGAATATATTGTTATGACGGTTTACTTCCACCTCA
 GACGGAAGATGGGTTATTTATGATTGACAGCTATATTCCGTGCATTATGACAGTGATTCTTTCTCAAGT
 TTCATTTTGGATAAATAAGAATCAGTTCCTGCTAGGACTGTATTTGGAATAACAACGTCTCCTCACCATG
 ACCACACTAAGCATCAGTGCACGACATTCTTGCCCAAAGTGTCTATGCTACCGCCATGGACTGGTTCA
 TAGCTGTCTGCTTTGCTTTTGTATTTTCGGCCCTATCGAGTTTGTCTGTCAACTATTTACCAATAT
 TCAAATGGAAAAGCCAAAAGGAAGACATCAAAGCCCCCTCAGGAAGTTCCTGCTCCAGTGCAGAGA
 GAGAAGCATCCTGAAGCCCTCTGCAGAATACAAATGCCAATTTGAACATGAGAAAAGAACAATGCTT
 TGGTCTACTCTGAATCTGATGTTGGCAACAGAACTGAGGTGGGAAACCATTCAAGCAAATCTTCCACAGT
 TGTTCAAGAATCTTCTAAAGGCACACCTCGGTCTTACTTAGCTTCCAGTCCAAACCCATTACAGCCGTGCA
 AATGCAGCTGAAACCATATCTGCAGCAAGAGCACTTCCATCTGCTTCTCCTACTTCTATCCGAACTGGAT
 ATATGCCTCGAAAGGCTTCAAGTGGATCTGCTTCTACTCGTCACGTGTTGGATCAAGACTGCAGAGGAT
 AAAGACCACAGTTAATACCATAGGGGCTACTGGGAAGTTGTCAGTACTCCTCCTCCATCGGCTCCACCA
 CCTTCTGGATCTGGCACAAGTAAAATAGACAAATATGCCCGTATTCTCTTCCAGTCACATTTGGGGCAT
 TTAACATGTTTATTGGGTTGTTATTTATCTAAGGACACTATGGAGAAATCAGAAAGTCTAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234371 representing NM_001204266
 Red=Cloning site Green=Tags(s)

MLQRWFLPRSLNESPGQNQKEEKLCTENFRILDSLDDGYDNRRLRPGFPGPVTEVKTDIYVTSFGPVSDV
 EMEYTMDFVFRQTWIDKRLKYDGPPIELRLNMMVTKVWTPDFFRNGKKSVMHNMTAPNKLFRIMRNGT
 ILYTMRLTISAECPMRLVDFPMDGHACPLKFGSYAYPKSEMIYTWKGPESVVEVPKESSSLVQYDLIGQ
 TVSSETIKSITGEYIVMTVYFHLRRKMGYFMIQTYIPCIMTVILSQVSWINKESVPARTVFGITTVLTM
 TTLSISARHSLPKVSYATAMDWFIIVCFVFSALIEFAAVNYFTNIQMEKAKRKTSPKPPQEVPAAPVQR
 EKHPEAPLQNTNANLNMRKRTNALVHSESDVGNRTEVGNHSSKSSSTVVQESSKGTSPRSYLASSPNPFSRA
 NAAETISAARALPSASPTSIPTYMPRKASVGSASTRHVFGSRLQRKTTVNTIGATGKLSATPPPSAPP
 PSGSGTSKIDKYARILFPVTFGAFNMVYVWVYLSKDTMEKSESLM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001204266

ORF Size: 1605 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_001204266.2](#)

RefSeq Size: 11017 bp

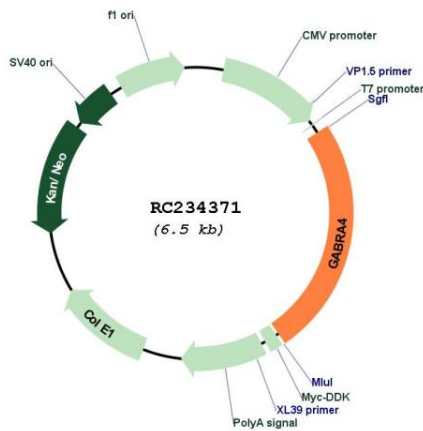
RefSeq ORF: 1608 bp

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:	60.4 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 RC234371