

Product datasheet for **RC238335**

GABRA2 (NM_001286827) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABRA2 (NM_001286827) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GABRA2
Synonyms:	DEE78; EIEE78
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238335 representing NM_001286827
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCTAAAAATAACATTACCATCTTTACGAGAATTCTTGACAGACTTCTGGATGGTTACGATAATCG
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 CATATTTAAACAGAGAACCTGTATTAGGGTCACTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
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Protein Sequence:

>RC238335 representing NM_001286827
 Red=Cloning site Green=Tags(s)

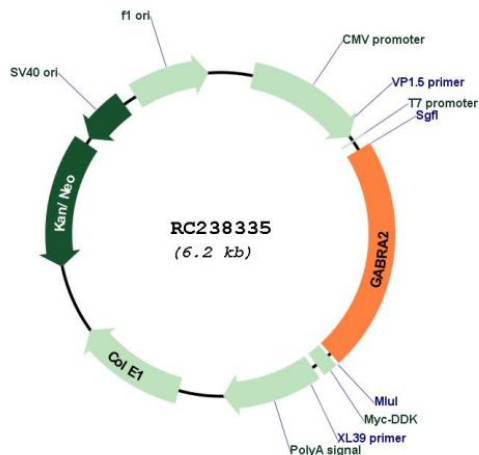
MRLKITLPSLREFLTDVFWMTIIGLDQDWEEYIDVFFRQKWKDERLKFKGPMNLRNNLMASKIWTPD
 TFFHNGKKSVAHNMTMPNKLRLRIQDDGTLTYMRLTVQAECPMHLEDFPMDAHSCLPKFGSYAYTTSEVT
 YIWTYNASDSVQVAPDGSRLNQYDLLGQSIGKETIKSSTGEYTVMTAHFHLKRKIGYFVIQTYLPCIMTV
 ILSQVSFWLNRESVPARTVFGVTTVLTMTTLLSISARNLSPKVAYATAMDWFIAVCYAFVFSALIEFATVN
 YFTKRGAWDGGKSVVNDKSPSIKAEGITLTYNSVKAILQGAKLIWSKYIAFSWPSLFQEKLEYLEKWMW
 CLTFKQSSKKEKASVMIQNNAYAVAVANYAPNLSKDPVLSISKSTTPEPNKKPENKPAEAKKTFNSVS
 KIDRMSRIVFPVLFGTFLNLYWATYLNREPVLGVSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001286827

ORF Size: 1368 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:	<ol style="list-style-type: none">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_001286827.3
RefSeq Size:	2538 bp
RefSeq ORF:	1371 bp
Locus ID:	2555
UniProt ID:	P47869
Cytogenetics:	4p12
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	52.5 kDa
Gene Summary:	<p>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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]</p>