

Product datasheet for **RG225743**

GABRA2 (NM_001114175) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABRA2 (NM_001114175) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GABRA2
Synonyms:	DEE78; EIEE78
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG225743 representing NM_001114175
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGACAAAATTGAACATCTACAACATCGAGTTCCTGCTTTTTGTTTTCTTGGTGTGGGACCCTGCCA
 GGTGGTGGTGGCTAACATCCAAGAAGATGAGGCTAAAAATAACATTACCATCTTTACGAGAATTCTTGA
 CAGACTTCTGGATGGTTACGATAATCGGCTTAGACCAGGACTGGGAGACAGTATTACTGAAGTCTTCACT
 AACATCTACGTGACCAGTTTTGGCCCTGTCTCAGATACAGATATGGAATATACAATTGATGTTTTCTTTC
 GACAAAAATGGAAAGATGAACGTTTAAAAATTAAGGTCCTATGAATATCCTTCGACTAAACAATTAAT
 GGCTAGCAAAATCTGGACTCCAGATACCTTTTTTCAATGGGAAAAATCAGTAGCTCATAATATGACA
 ATGCCAAATAAGTTGCTTCGAATTCAGGATGATGGGACTCTGCTGTATACCATGAGGCTTACAGTCAAG
 CTGAATGCCCAATGCACTTGGAGGATTTCCCAATGGATGCTCATTATGCTCTGAAATTTGGCAGCTA
 TGCATATACAACCTCAGAGGTCCTTATATTTGGACTTACAATGCATCTGATTACAGTACAGTTGCTCCT
 GATGGCTCTAGGTTAAATCAATATGACCTGCTGGGCAATCAATCGGAAAGGAGACAATTAATCCAGTA
 CAGGTGAATATACTGTAATGACAGCTCATTCCACCTGAAAAGAAAAATTGGGTATTTGTGATCAAAC
 CTATCTGCCTTGCACTGACTGTCATTCTCTCCAAGTTTCACTCTGGCTTAACAGAGAATCTGTGCCT
 GCAAGAACTGTGTTTGGAGTAACAACCTGCTTAACAATGACAACCTAAGCATCAGTGTCTCGAATTCTC
 TCCCAAAGTGGCTTATGCAACTGCCATGGACTGGTTTATTGCTGTTTGTATGCATTTGTGTTCTCTGC
 CCTAATTGAATTTGCAACTGTTAATTACTTCACAAAAGAGGATGGGCTTGGGATGGGAAGAGTGTAGTA
 AATGACAAGAAAAAGAAAAGGCTTCCGTTATGATACAGAACAACGCTTATGCAGTGGCTGTTGCCAATT
 ATGCCCCGAATCTTTCAAAGATCCAGTCTCTCCACCATCCAAGAGTGAACCAAGGAGGAGGAGGAGGAG
 CAAGAAGCCAGAAAAACAAGCCAGCTGAAGCAAAGAAAACTTCAACAGTGTAGCAAAAATTGACAGAATG
 TCCAGAATAGTTTTTCCAGTTTTGTTGTACCTTTAATTTAGTTTACTGGGCTACATATTTAAACAGAG
 AACCTGTATTAGGGGTCAGTCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG225743 representing NM_001114175
 Red=Cloning site Green=Tags(s)

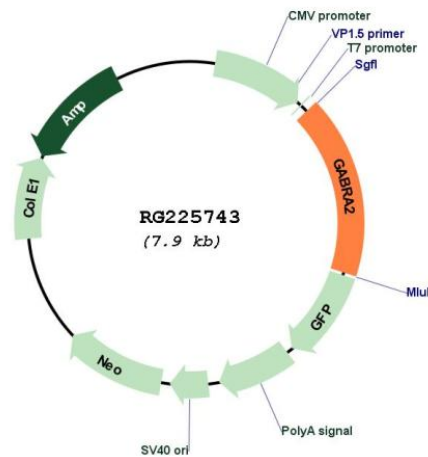
MKTKLNIYNMQFLLFVFLVWDPARLVLANIQEAEKNNITIFTRILDRLLDGYDNLRPGLGDSITEVFT
 NIYVTSFGPVSDTMEYIDVFFRQKWKDERLKFKGPMNILRLNNLMASKIWPDTFFHNGKKSVAHMT
 MPNKLLRIQDDGTLTYMRLTVQAECPMHLEDFPMDAHSCPLKFGSYAYTTSEVTYIWTYNASDSVQVAP
 DGSRLNQYDLLGQSIGKETIKSSTGEYVMTAHFHLKRKIGYFVIQTYLPCIMTVILSQVSFWLNRESVP
 ARTVFGVTTVLMTTSLISARNSLPKVAYATAMDWFIACVYAFVFSALIEFATVNYFTKRGWAWDGKSVV
 NDKKKEKASVMIQNNAYAVAVANYAPNLSKDPVLSISKSAATPEPNKKPENKPAEAKKTFNSVSKIDRM
 SRIVFPVLFGTFNLVYWATYLNREPVLVGSP

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001114175

ORF Size: 1353 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_001114175.3
RefSeq Size:	2784 bp
RefSeq ORF:	1356 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
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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]