

Product datasheet for **RG232642**

GABRR1 (NM_001256704) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABRR1 (NM_001256704) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GABRR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232642 representing NM_001256704 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGCCTGGCTTTGGAGGCCCTGCCATTCTGTTGGTGTGGATGTGCAGGTGGAGAGTTGGATAGCA
TCTCAGAGGTTGACATGGACTTTACGATGACCCCTACCTGAGGCACTACTGGAAGGACGAGAGGCTGTC
TTTTCCAAGCACCAACACCTCAGCATGACGTTTACGGCCGGCTGGTCAAGAAGATCTGGTCCCTGAC
ATGTTTTTCGTGCACTCCAAACGCTCCTCATCCAGCACACCACAGACAACGTCATGTTGCGGGTCC
AGCCTGATGGGAAAGTGCTCTATAGTCTCAGGTTACAGTAACTGCAATGTGCAACATGGACTTCAGCCG
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TTTCACGTTGCGTCGCCACATCTTCTTCTTCTGCTCCAACTTATTTCCCGCTACCCTGATGGTCATG
CTGTCCTGGGTGTCCTTCTGGATCGACCGCAGAGCCGTCCTGCCAGAGTCCCCTTAGGTATCACAACGG
TGCTGACCATGTCCACCATCATCAGGGCGTGAATGCCTCCATGCCGCGCTCCTACATCAAGGCCGT
GGACATCTACCTCTGGTCAGCTTGTGTTGTTGTTCTCTCGGTGCTGGAGTATGCGGCCGCACTAC
CTGACCACTGTGCAGGAGGAAGGAACAGAAGCTGCGGGAGAAGCTTCCCTGCACCAGCGGATTACCTC
CGCCCCGCACTGCGATGCTGGACGGCACTACAGTGATGGGAGGTGAATGACCTGGACAACATACATGCC
AGAGAATGGAGAGAAGCCCGACAGGATGATGGTGCAGCTGACCCTGGCCTCAGAGAGGAGCTCCCCACAG
AGGAAAAGTCAGAGAAGCAGCTATGTGAGCATGAGAATCGACACCACGCCATTGATAAATACTCCAGGA
TCATCTTCCAGCAGCATACATTTTATTCAATTAATACTGGTCTATTTTCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232642 representing NM_001256704
 Red=Cloning site Green=Tags(s)

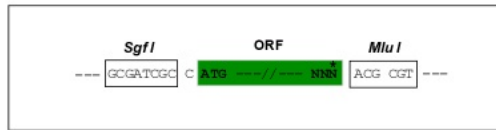
MRPGFGGPAIPVGVQVESLDSISEVDMDFMTLYLRHYWKDERLSFPSTNNLSMTFDGRLVKKIWPDP
 MFFVHSKRSFIHDTTDDNVMRLRVQPDGKVLVSLRVTVTAMCNMDFSRFPLDTQTCSEIESYAYTEDDLM
 LYWKKGNDLTKTDERISLSQFLIQEFHTTTKLAFYSSGTWYNRLYINFTLRRHIFFLQTYFPATLMVM
 LSWVSFWIDRRRAVPARVPLGITTTLTMTSTIITGVNASMPRVSYIKAVDIYLWVSFVFLSVLEYAAVNY
 LTTVQERKEQKLREKLPTSGLPPRTAML DGNYS DGEVNDLDNYPENGEKPDRMMVQLTLASERSSPQ
 RKSQRSSYVSMRIDTHAIDKYSRIIFPAAYILFNLIYWSIFS

TRTRPLE - GFP Tag - V

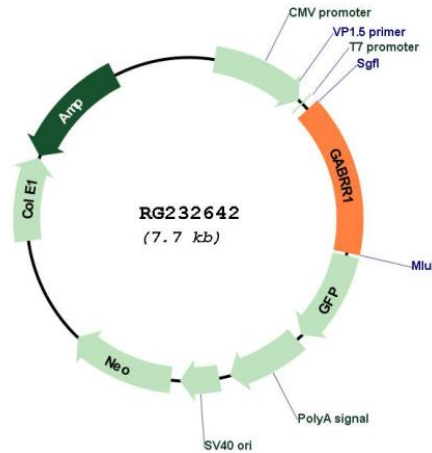
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001256704

ORF Size:	1176 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_001256704.1 , NP_001243633.1
RefSeq Size:	3276 bp
RefSeq ORF:	1179 bp
Locus ID:	2569
UniProt ID:	P24046
Cytogenetics:	6q15
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 receptors, which are ligand-gated chloride channels. GABRR1 is a member of the rho subunit family. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]