

## Product datasheet for **RG220874**

### **GABRQ (NM\_018558) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GABRQ (NM_018558) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GABRQ
Synonyms:	THETA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG220874 representing NM\_018558  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCATCCGAGGCATGCTGCGAGCCGAGTGATCCTGTGCTCATCAGGACCTGGCTCGCGGAGGGCA  
 ACTACCCAGTCCCATCCGAAATTCACCTCGAGTTCTCTCTGCTGTGCCGAAGTCGTCTGAACCT  
 CTTCAACTGCAAAAATTGTGCAAAATGAAGCTGTGGTTCAAAGATTTTGGACAGGGTGCTGTCAAGATAC  
 GATGTCCGCCTGAGACCGAATTTTGGAGGTGCCCTGTGCCTGTGAGAATATCTATTTATGTCACGAGCA  
 TTGAACAGATCTCAGAAATGAATATGGACTACACGATCACGATGTTTTTTCATCAGACTTGGAAAGATTC  
 ACGCTTAGCATACTATGAGACCACCTGAACTTGACCCTGGACTATCGGATGCATGAGAAGTTGTGGGTC  
 CCTGACTGCTACTTTCTGAACAGCAAGGATGCTTTCGTGCATGATGTGACTGTGGAGAATCGCGTGTTC  
 AGCTTCACCCAGATGGAACGGTTCGGTACGGCATCCGACTCACCCTACAGCAGCTTGTTCCTGGATCT  
 GCATAAATCCCTATGGACAAGCAGGCCGCAACCTGGTGGTAGAGAGCTATGGTTACACGGTTGAAGAC  
 ATCATATTATTCTGGGATGACAATGGGAACGCCATCCACATGACTGAGGAGCTGCATATCCCTCAGTTCA  
 CTTTCTGGGAAGGACGATTACTAGCAAGGAGGTGATTTCTACACAGGTTCTACATACGCTGATACT  
 GAAGTTCAGGTTTCCAGAGGAAAGTTAACAGCTACCTTGTGCAAGTCTACTGGCCTACTGTCTCACCCT  
 ATTACCTCTGGATATCGTTTTGGATGAACTATGATTCCTCTGCAGCCAGGGTGACAATTTGGCTTAACTT  
 CAATGCTCATCCTGACCACCATCGACTCACATCTGCGGGATAAGCTCCCCAACATTTCTGTATCAAGGC  
 CATTGATATCTATCCTCGTGTGCTTGTCTTTGTGTTCTCTGCTTGTGGAGTATGTCTACATCAAC  
 TATCTTTTCTACAGTCGAGGACCTCGGCCAGCCTAGGCGACACAGGAGACCCCGAAGAGTCATTGCCC  
 GCTACCGCTACCAGCAAGTGGTGGTAGGAAACGTGCAAGGATGGCCTGATTAACGTGGAAGACGGAGTCAG  
 CTCTCTCCCATCACCCAGCGCAGGCCCCCTGGCAAGCCCGAAAGCCTCGGTTCTTTGACGTCACCC  
 TCCGAGCAGGCCAGCTGGCCACCTCGGAAAGCCTCAGCCCACTCACTTCTCTCAGGCCAGGCCCCCC  
 TGGCCACTGGAGAAAGCCTGAGCGATCTCCCTCCACCTCAGAGCAGGCCCGGCACAGCTATGGTGTTCG  
 CTTAATGGTTTTCCAGGCTGATGACAGTATTATCCTACCGAAATCCGCAACCGTGTGCAAGCCCATGGC  
 CATGGTGTACCCATGACCATGAAGATTCCAATGAGAGCTTGGCTCGGATGAGCGCCATGGCCATGGCC  
 CCAGTGGGAAGCCATGCTTACCATGGCGAGAAGGGTGTGCAAGAAGCAGGCTGGGACCTTGTATGACAA  
 CAATGACAAGAGCGACTGCCTTGCCATTAAGGAGCAATCAAGTGTGATACTAACAGTACCTGGGCGCTT  
 AATGATGATGAGCTCATGGCCATGGCCAAGAGAAGGACAGTAGCTCAGAGTCTGAGGATAGTTGCCCC  
 CAAGCCCTGGGTGCTCCTTCACTGAAGGTTCTCCTTCGATCTCTTAATCCTGACTACGTCCTCAAGGT  
 CGACAAGTGGTCCCGTTCTCTTCCCTCTGGCCTTTGGTGTGTTCAACATTGTTTACTGGGTATACCAT  
 ATGTAT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG220874 representing NM\_018558  
 Red=Cloning site Green=Tags(s)

MGIRGMLRAAVILLIIRTWLAEGNYPSPIPKFHFEFSSAVPEVVLNLFNCKNCANEAVVQKILDRVLSRY  
 DVRLRPNFGGAPVPRISIVVTSIEQISEMNMDYITMFFHQTKWDSRLAYYETTLNLTLDYRMHEKLWV  
 PDCYFLNSKDAFVHDVTVENRVFQLHPDGTVRYGIRLTTAACSLDLHKFPMQKQACNLVVEVSYGYTVED  
 IILFWDDNGNAIHMTEELHIPQFTFLGRITTSKEVYFYTGSIYRILKFKVQREVNSYLVQVYVPTVLT  
 ITSWISFWMNYDSSAARVTIGLTSMLILTTIDSHLRDKLPNISCIAIDYIILVCLFFVFLSLLEVYVYIN  
 YLFYSRGRPRRQPRRHRPRRVIARYRYQQVVGNVQDGLINVEDGVSSLPIITPAQAPLASPESLGLTST  
 SEQAQLATSELSPLTSLSGQAPLATGESLSDLPSTSEQARHSYGVRFNGFQADDSIIPTEIRNRVEAHG  
 HGVTHDHEDSNESLSSDERHGHGSPGKPMHHGEEKGVQEWDLDDNNDKSDCLAIKEQFKCDTNSTWGL  
 NDELMAHGQEKDSSSESEDSCPPSPGCSFTEGFSFDLFPDYPVKVDKWSRFLFPLAFGLFNIVYVYVY  
 MY

**TRTRPLE** – GFP Tag – V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_018558

ORF Size: 1896 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\\_018558.4](#)

RefSeq Size: 2000 bp

RefSeq ORF: 1899 bp

Locus ID: 55879

UniProt ID: [Q9UN88](#)

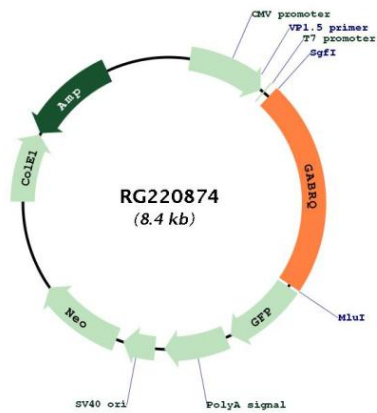
**Cytogenetics:** Xq28

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

**Protein Pathways:** Neuroactive ligand-receptor interaction

**Gene Summary:** The gamma-aminobutyric acid (GABA) A receptor is a multisubunit chloride channel that mediates the fastest inhibitory synaptic transmission in the central nervous system. This gene encodes the theta subunit of the GABA A receptor. The gene is mapped to chromosome Xq28 in a cluster of genes including those that encode the alpha 3 and epsilon subunits of the GABA A receptor. [provided by RefSeq, Jul 2017]

**Product images:**



Circular map for RG220874