

## Product datasheet for **RR211099**

### Gabra4 (NM\_080587) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gabra4 (NM_080587) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gabra4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR211099 representing NM\_080587  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTTTCTGTCCAGAAGGTACCTGCGATCGTGTGTGCTCCGGGTGAGCCTCGCCCTCTGCAGTCC  
 TGTGCCTGGCGACTTGTTTAAACGAATCCCAGGACAGAATCAAAGGACGAGAAATTGTGCCCGGAAAA  
 TTTTACCGTATCCTGGACAGTTTGTGGATGTTATGACAACAGACTGCGTCTGGATTGGGGTCTCT  
 GTTACAGAGGTGAAAAGTATATATGTACCAGCTTTGGACCGTTTCTGATGTTGAAATGGAATACA  
 CAATGGATGTGTTCTTACAGACAGACATGGATTGACAAAAGACTGAAATATGATGGCCCCATTGAAATCCT  
 GAGGTTGAACAATATGATGGTACCAAAGTTTGGACCCCTGATACTTTCTCAGGAATGGAAGAAATCT  
 GTCTCCATAACATGACAGCTCAAATAAACTTTTGAATTATGAGAAATGGCACTATTTATACACAA  
 TGAGACTACCATAAGTGGGAGTGTCCATGAGACTGGTGGATTTTCTATGGACGGTCATGCCTGCC  
 TTTGAAATTTGGGAGTTATGCATATCCCAAGAGTGAGATGATCTACACCTGGACCAAAGGCCCTGAGAAG  
 TCAGTGGAGGTACCAAAGGAGTCTCGAGCTTAGTTAGTATGATCTAATTGGCCAGACTGTATCCAGTG  
 AGACTATCAAATCTATTACAGGTGAATACATTGTTATGACCGTGTACTTTACCTCAGACGGAAGATGGG  
 CTATTTTATGATTCAGACATATATCCCCTGCATCATGACAGTGCCTTTCTCAAGTTTCTTCTGGATC  
 AATAAGGAGTCTGTTCCAGCCAGAACTGTATTTGGAATAACCACAGTCCCTCAGATGACCACCCTAAGCA  
 TCAGTGCCTCGGCATTCTTTGCCCAAAGTGCCTATGCGACTGCCATGGATTGGTTCATAGCTGTCTGTT  
 TGCTTTTGATTTTCGGCTTTATTGAGTTTGTGCTGTCAACTATTTACCAACATTCAAATGCAAAAA  
 GCCAAAAAGAAGATACAAAACCTCCTCCAGAAGTTCCAGCTGCCCCAGTACTGAAGGAAAAACATACAG  
 AAACATCTCTTCAGAATACACATGCTAATTTGAACATGAGGAAAAGAACAATGCATTAGTCCACTCAGA  
 ATCAGATGTCAACAGCAGAAGTGGGGAACCATTCAGCAAGACCACCGCTGCCAGGAGTCTTCT  
 GAAACCACTCCTAAGGCCCACTTGGCTTCCAGTCCAAATCCATTACAGAGGCAATGCAGCTGAGACTA  
 TCTCTGCAGCAGCAAGAGGTCTTTCGTCTGCCGCATCGCCCTCTCCTCACGGGACACTGCAGCCAGCTCC  
 TTTGCGGTGCGGTCTGCTCGCCCGCATTTGGAGCTAGACTTGGGCGCATTAAAGACAACAGTTAATACG  
 ACAGGGGTGCCTGGGAATGTGTCAGCCACACCTCCTCCTCTGCTCCACCACCTTCTGGATCTGGCACA  
 GAAAAATAGACAAATATGCTCGTATTCTTTCCAGTCACATTTGGGCGATTTAACATGGTCTACTGGGT  
 GGTTTATTTATCTAAGGACACCATGGAGAAATCAGAAAGTCTAATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR211099 representing NM\_080587  
 Red=Cloning site Green=Tags(s)

MVSVQKVPAILVCSGVSLLHVLCLATCLNESPGQNSKDEKLCPENFTRILDSLLDGYDNRLRPGFGGP  
 VTEVKTDIYVTSFGPVSDEVEMEYTMDFFRQTWIDKRLKYDGPVIEILRLNMMVTKVWTPDTFFRNGKKS  
 VSHNMTAPNKLFRIMRNGTILYTMRLTISAECMRLVDFPMDGHACPLKFGSYAYPKSEMIYTWKGPKEK  
 SVEVPKESSSLVQYDLIGQTVSSETIKSITGEYIVMTVYFHLRRKMGYFMIQTYIPCIMTVILSQVSWFI  
 NKESVPARTVFGITTVLTMTTLSISARHSLPKVSYATAMDWFIACVAFVFSALIEFAAVNYFTNIQMOK  
 AKKKISKPPPEVPAAPVLKEKHTETSLQNTANLNMKRTNALVHSESDVNSRTEVGNHSSKTTAAQESS  
 ETTPKAHLASSPNPFSRANAETISAAARGLSSAASPSPHGTLQAPLRSASARPAFGARLGRIKTTVNT  
 TGVPGNVSATPPPSAPPPSGSGTSKIDKYARILFPVTFGAFNMVYVWVYLSKDTMEKSESLSM

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_080587

**ORF Size:** 1656 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\\_080587.3](#), [NP\\_542154.3](#)

**RefSeq Size:** 1843 bp

**RefSeq ORF:** 1659 bp

**Locus ID:** 140675

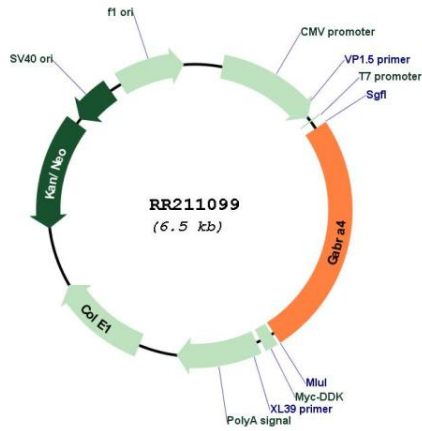
**UniProt ID:** [P28471](#)

**Cytogenetics:** 14p11

**MW:** 61 kDa

**Gene Summary:** alpha 4 subunit of the GABA-A receptor which binds gamma-aminobutyric acid; involved in mood and anxiety [RGD, Feb 2006]

**Product images:**



Circular map for RR211099