

## Product datasheet for **RR204907**

### **Gabra2 (NM\_001135779) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gabra2 (NM_001135779) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gabra2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR204907 representing NM\_001135779  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGGACAAAATTGAGCACTTGAACGTATGGTTCCGCTGCTTGTCTCCTGGTGTGGAACCCAGCCA  
 GGTTGGTCTGGCTAACATCCAAGAAGATGAGGCTAAAAATAATACACCATCTTTACAAGAATTCTAGA  
 CAGACTTCTGGATGGTTACGATAATCGTCTTAGACCAGGACTGGGAGACAGCATTACTGAAGTCTCCACC  
 AACATCTATGTGACCAGTTTTGGCCCTGTCTCAGATACAGATATGGAATATACAATAGATGTTTTCTTTC  
 GACAAAATGGAAAGACGAGCGGTTAAATTTAAAGTCCCATGAATATCCTTCGACTTAAACAATTAAT  
 GGCTAGCAAAATCTGGACTCCTGACACCTTCTTTCACAACGGGAAAAAGTCAGTGGCTCACAAATGACA  
 ATGCCAAACAAGCTGCTCGAATCCAGGATGACGGAACATTGCTGTACACCATGAGGCTTACAGTCCAAG  
 CCGAATGTCCAATGCACTTGGAGGACTTCCAATGGACGCTCACTCATGCCACTGAAATTTGGAAGCTA  
 TGCTTACACGACCTCGGAAGTCACTTATATTTGGACTTACAATGCTTCTGACTCTGTTCCAGTTGCTCCT  
 GATGGCTCTAGGTTAAATCAGTATGATTTGCTGGGCCAGTCAATTGGGAAGGAGACAATTAATCAAGCA  
 CAGGTGAATACACGGTAATGACAGCTCATTTCCTTGAAGGAAAAATTTGGGATTTTTGTGATTGAGAC  
 CTATCTGCCTTGATCATGACTGTCATTCTCTCCAAGTGCATTCTGGCTGAACAGAGAATCGGTGCCA  
 GCGAGAAGTGTGTTGGAGTAACAAGTGTGTTGACAATGACCACATTAAGCATCAGTGCCTGAAATTCCT  
 TTCCCAAAGTGGCCTATGCCACTGCCATGGACTGGTTTATCGCTGTTTGTACCGGTTTGTGTTCTCTGC  
 CTTAATTGAATTTGCAACTGTTAATTACTTACGAAAAGAGGATGGGCTTGGGATGGAAGAGGTGAGTA  
 AATGACAAGCCTAAAAAGAGAAAGGCTCCGTCATGATACAGAACAACGCCTATGCTGTAGCCGTTGCCA  
 ACTACGCCCGAATCTTCCAAGATCCTGCTCTTACCATTCCAAAAGTCAACTACTCCAGAACC  
 AAACAAGAAGCCAGAGAACAAGCCAGCCGAAAGCCAAAGAAACTTTCAACAGTGTGACGAAAATCGACAGA  
 ATGTCTAGAATAGTGTCCCGGTTCTGTTGGTACTTTAATTTAGTTTACTGGGCTACGATTTAAACC  
 GGGAGCCTGTATTAGGGTTAGTCCT

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR204907 representing NM\_001135779  
 Red=Cloning site Green=Tags(s)

MRTKLSTCNVWFPLLVLVWNPARLVLANIQEDEAKNNITIFTRILDRLLDGYDNRLRPGLGDSITEVST  
 NIYVTSFGPVSDDMEYIDVFFRQKWKDERLKFKGPMNILRLNNLMASKIWTPDTFFHNGKKSVAHNMT  
 MPNKLRLRIQDDGTLTYMRLTVQAECPMHLEDFPMDAHSCLPKFGSYAYTTSEVTYIWTYNASDSVQVAP  
 DGSRLNQYDLLGQSIGKETIKSSTGEYVMTAHFHLKRKIGYFVIQTYLPCIMTVILSQVSFWLNRESVP  
 ARTVFGVTTVLMTTLLSISARNSLPKVAYATAMDWFIIVCYAFVFSALIEFATVNYFTKRGWAWDGKSVV  
 NDKPKKEKGSVMIQNNAYAVAVANYAPNLSKDPVLSISKSATPEPNKKPENKPAEAKKTFNSVSKIDR  
 MSRIVFPVLFGTFLVYVATYLNREPVLGVSP

**SGP**TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**


**ACCN:** NM\_001135779

**ORF Size:** 1356 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

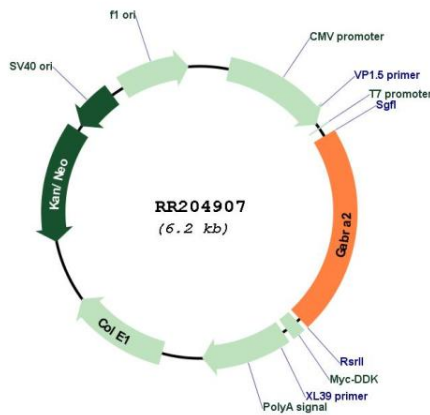
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001135779.1](#), [NP\\_001129251.1](#)  
**RefSeq Size:** 2223 bp  
**RefSeq ORF:** 1359 bp  
**Locus ID:** 289606  
**Cytogenetics:** 14p11  
**MW:** 51.2 kDa  
**Gene Summary:** may act as subunits in GABA-A receptors with benzodiazepine II binding characteristics [RGD, Feb 2006]

**Product images:**



Circular map for RR204907