

## Product datasheet for **RC201993**

### **GABA A Receptor beta 3 (GABRB3) (NM\_000814) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor beta 3 (GABRB3) (NM_000814) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GABA A Receptor beta 3
Synonyms:	DEE43; ECA5; EIEE43
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC201993 representing NM\_000814.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTGGGGCCTTTCGGGAGGAAGGCTTTTCGGCATCTTCTCGGCCCGGTGCTGGTGGCTGTGGTGTGC
TGCGCCAGAGTGTGAACGATCCCGGGAACATGTCTTTGTGAAGGAGACGGTGGACAAGCTGTTGAAA
GGCTACGACATTGCCTAAGACCCGACTTCGGGGGTCCCCGGTCTGCGTGGGGATGAACATCGACATC
GCCAGCATCGACATGGTTTCCGAAGTCAACATGGATTATACCTTAACCATGTATTTTCAACAATATTGG
AGAGATAAAAAGGCTCGCCTATTCTGGGATCCCTCTCAACCTCACGCTTGACAATCGAGTGGCTGACCAG
CTATGGGTGCCGACACATATTTCTTAAATGACAAAAAGTCATTTGTGCATGGAGTGACAGTGAAAAAC
CGCATGATCCGTCTTACCCTGATGGGACAGTGTGTATGGGCTCAGAATCACCACGACAGCAGCATGC
ATGATGGACCTCAGGAGATACCCCTGGACGAGCAGAATGCACTCTGAAAATTGAAAGCTATGGCTAC
ACCACGGATGACATTGAGTTTTACTGGCGAGGCGGGACAAGGCTGTACCGAGTGAAAGGATTGAG
CTCCCGCAGTTCTCCATCGTGGAGCACCGTCTGGTCTCGAGGAATGTTGTCTTCCGCACAGTGCCTAT
CCTCGACTGTCACTGAGCTTTCGGTTGAAGAGGAACATTGGATACTTCATTCTTACAGACTTATATGCC
TCTATACTGATAACGATTCTGTCGTGGGTGCCTTCTGGATCAATTATGATGCATCTGCTGCTAGAGTT
GCCCTCGGGATCACAACCTGTGCTGACAATGACAACCATCAACACCCACCTTCGGGAGACCTTGCCAAA
ATCCCCTATGTCAAAGCCATTGACATGTACCTTATGGGCTGCTTCGTCTTTGTGTTCTGGCCCTTCTG
GAGTATGCCTTTGTCAACTACATTTTCTTTGGAAGAGGCCCTCAAAGGCAGAAGAAGCTTGCAAAAAG
ACAGCCAAAGCAAAGAATGACCGTTCAAAGAGCGAAAGCAACCGGTGGATGCTCATGAAATATTCTG
TTGACATCGCTGGAAGTTCACAATGAAATGAATGAGGTCTCAGGCGGCATTGGCGATACCAGGAATTCA
GCAATATCCTTTGACAACCTCAGGAATCCAGTACAGGAAACAGAGCATGCCTCGAGAAGGGCATGGCGCA
TTCTTGGGGACAGAAGCCTCCCGCACAAGAAGACCCATCTACGGAGGAGGTCTTACAGCTCAAATTT
AAAATACCTGATCTAACCGATGTGAATGCCATAGACAGATGGTCCAGGATCGTGTTCATTCACTTTT
TCTCTTTTCAACTTAGTTTACTGGCTGACTATGTAAAC
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

**Protein Sequence:**

>Peptide sequence encoded by RC201993  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MWGLAGGRLFGIFAPVLVAVVCCAQSVNDPGNMSFVKETVDKLLKGYDIRLRPDFGGPPVCVGMNIDI
ASIDMVSEVNMDYTLTMYFQQYWRDKRLAYSGIPLNLTLDNRVADQLWVPDXYFLNDKKSFVHGVTVKN
RMIRLHPDGTVL YGLRI TTTAACMMDLRRYPLDEQNCTLEIESYGYTDDIEFYWRGGDKAVTGVERIE
LPQFSIVEHRLVSRNVFATGAYPRLSLSFRLKRNIGYFILQTYMPSILITILSWVSWINYDASAARV
ALGITTVLTMTTINTHLRETLPKIPYVKAIDMYLMGCFVFLALLEYAFVNYIFFGRGPQRQKLAEK
TAKAKNDRSKSESNRVD AHGNILLTSLVHNEMNEVSGGIGDTRNSAISFDNSGIQYRKQSMPEGHGR
FLGDRSLPHKTHLRRSSQLKIKIPDLTDVNAIDRWSRIVFPFTFSLFNLVYWL YVFN
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg2423\\_b04.zip](https://cdn.origene.com/chromatograms/mg2423_b04.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_000814

**ORF Size:** 1419 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_000814.6](#)

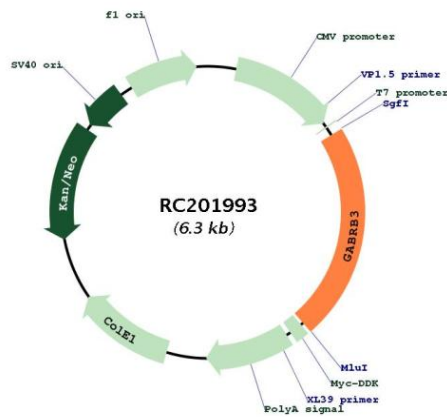
**RefSeq Size:** 5811 bp

**RefSeq ORF:** 1422 bp

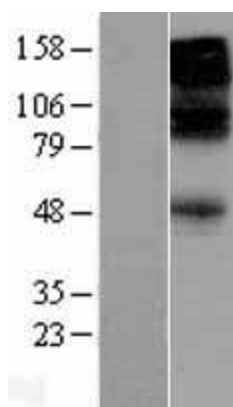
**Locus ID:** 2562

<b>UniProt ID:</b>	<u>P28472</u>
<b>Cytogenetics:</b>	15q12
<b>Domains:</b>	Neur_chan_memb, Neur_chan_LBD
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>MW:</b>	54.1 kDa
<b>Gene Summary:</b>	This gene encodes a member of the ligand-gated ionic channel family. The encoded protein is one the subunits of a multi-subunit chloride channel that serves as the receptor for gamma-aminobutyric acid, a major inhibitory neurotransmitter of the mammalian nervous system. This gene is located on the long arm of chromosome 15 in a cluster with two other genes encoding related subunits of the family. This gene may be associated with the pathogenesis of several disorders including Angelman syndrome, Prader-Willi syndrome, nonsyndromic orofacial clefts, epilepsy and autism. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2013]

**Product images:**



Circular map for RC201993



Western blot validation of overexpression lysate (Cat# [LY400288]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201993 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).