

## Product datasheet for **RN200582**

### **Gga3 (NM\_001108304) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gga3 (NM_001108304) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gga3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN200582 representing NM\_001108304  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGAGGCGGAAGGGGAGAGCTGGAATCCTGGCTGAATAAAGCTACCAATCCTTCCAACGCCAGG  
 AAGACTGGGAATACATCATTGGCTTCTGTGATCAGATCAACAAAGAGCTTGAAGGCCCCAGATTGCTGT  
 GCGACTCCTGGCTCACAAGATCCAGTCTCCACAGGAATGGGAGGAGTGCAGGCCCTCACGGTGGTGGAG  
 GCGTGTATGAAGAATTGCGGCAGGAGACTTCATAATGAAGTGGGAAAGTCCGATTTTTGAATGAATTAA  
 TCAAAGTCGTCTCTCAAAGTACTTGGGAGACAGGGTGTCTGAAAAGGTGAAGGCTAAGGTCATCGAGTT  
 GCTTTTTAGCTGGACACTGGCCTTGCCGGAAGAAGCAAAGATCAAAGACGCCTACCATATGTTGAAGAGA  
 CAAGGCATAGTGCAGTCGGACCCCTATCCCATGGACAGAACACTGATCCCCTCTCTCCACCTCGTC  
 CCAAAAACCTGTTTTGATGATGAGGAAAAATCCAAGCTTTAGCCAAGCTGCTGAGAAGCAAGAACCC  
 AGATGACTTACAAGAAGCCAACCAACTCATCAAGTCCATGGTGAAGGAAGATGAGGCGCGCATCCAGAAA  
 GTGACCAAGCGCCTACACACGTTGGAGGAAGTTAACAACAATGTCAAGCTGCTCCATGAGATGCTTCTTC  
 ACTACAGCCAAGAGTTTCATCAGAGGCCGACAAGAGCTCATGAAGGAGCTTTTGATCGTTGTGAGAA  
 TAAGAGACGGACATTATTTAAACTAGCCAGTGAGACAGAAGACAATGACAATAGTTTGGGGGACATCCTG  
 CAGGCCAGTGACAACCTGTCCAGGGTCACTCAACTTTACAAAACAATTATTGAAGGGCAGATCATCAATG  
 GTGAGGTGACCACCTCAACCGTGCCTGACTCTGAAGGAAATAGTCACTGCGGTAACCAAGGCCCTCAT  
 CGACCTTGCCGAGTTGGACACCCCGAGCAGTCACTCCAGTGTGGCCCGAGCCTGCCACCCACC  
 TCAGGCATCCCTATCCTTCCCCACCTCCCCAACCTCCGGCCCTCCACGAAGCCGTTTATCCAGCCAGG  
 CTGAGGCTCCCTCAGGGCCTGACAGCAGCAACAATGCCCTCTCCTTGTGGATGAGGAGCTCCTCTGTCT  
 AGTCTCCTGTGGTCCAGCGAGCGCAGTGACCCACAGCACTGGTTCTTTACGTTCTCTTCTGGACCTGCC  
 CCAGCCTTGTTCCAAAGGCTGAGCCCGAAGGCCAGAGTACCCAGCTCCAGCATCTCACACCGCTGG  
 ATGCCCTTGATCAGTCTTGAAGAGGCCAAAGTGAAGTCAAGGCTGGTGAACCTGTTTCTGCTTCTC  
 TCCTGGGCCACCGCCTCCCACTGCTTCTGCTCTACCCAGCCAGGCTCTCCTGCCCTTCTCAACT  
 GGGCCCGAAGTCTCTTCCAGTCCGAGCCTTCCAGTCCCAAGCCAGCCCTCAGAAGGGCCAGAGC  
 TCTCCTGGCTAGTGTCCATGTGCCCTGGAATCGATCAAGCCTAGCAGTGCCTTCTGTGACAGCCTA  
 TGATAAAATGGCTTCCGCATCCTTTTCCACTTGTCTAAGGAGTGTCCGCCAGGACGGCCTGATGTGCTG  
 GTGGTGGTGGTTCCATGCTGAATACAGCTCCCTTCCAGTCAAGAGTATAGTGTACAGGCCGAGTGC  
 CCAAGTCAATGAAAGTGAAGTTGCAGCCACCTCTGGGACAGAATTTCTCCATTTAGTCCCATCCAGCC  
 ACCTGCAGCCATCACCCAGGTATGCTGCTGGCCAATCCAATGAAGGAAAAGGTACGGCTTCGGTATAAA  
 TTGACCTTTGCTTGGGGGAGCAGCTGAGCACAGAGCTGGGTGAAGTGGACCAGTTTCTCCTGTGGAGC  
 AGTGGGGGAACCT**ATGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001108304

**Insert Size:** 1977 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001108304.1](#), [NP\\_001101774.1](#)

**RefSeq Size:** 4565 bp

**RefSeq ORF:** 1977 bp

**Locus ID:** 360658

**Cytogenetics:** 10q32.1

**Gene Summary:** Plays a role in protein sorting and trafficking between the trans-Golgi network (TGN) and endosomes. Mediates the ARF-dependent recruitment of clathrin to the TGN and binds ubiquitinated proteins and membrane cargo molecules with a cytosolic acidic cluster-dileucine (DXXLL) motif. Mediates export of the GPCR receptor ADRA2B to the cell surface. Involved in BACE1 transport and sorting as well as regulation of BACE1 protein levels. Regulates retrograde transport of BACE1 from endosomes to the trans-Golgi network via interaction through the VHS motif and dependent of BACE1 phosphorylation. Modulates BACE1 protein levels intedepently of the interaction between VHS domain and DXXLL motif through recognition of ubiquitination (By similarity). Key player in a novel DXXLL-mediated endosomal sorting machinery to the recycling pathway that targets NTRK1 to the plasma membrane (PubMed:26446845).[UniProtKB/Swiss-Prot Function]