

## Product datasheet for **RG229531**

### Neurokinin B (TAC3) (NM\_001178054) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Neurokinin B (TAC3) (NM\_001178054) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TAC3  
**Synonyms:** HH10; LncZBTB39; NK3; NKB; NKNB; PRO1155; ZNEUROK1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG229531 representing NM\_001178054  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGGATCATGCTGCTATTCACAGCCATCCTGGCCTTCAGCCTAGCTCAGAGCTTTGGGGCTGTCTGTA  
 AGGAGCCACAGGAGGAGGTGTTCTCGCGGGGCGCAGCAAGAGGGATCCAGATCTCTACCAGCTGCT  
 CCAGAGACTCTCAAAGCCACTCATCTCTGGAGGGATTGCTCAAAGCCCTGAGCCAGGCTAGCACAGAT  
 CCTAAGGAATCAACATCTCCCGAGAAACTCTCTACGGATGTGAATCAAGAGAAGCTCCCCAGCTTTG  
 GCATCCTCAAGTATCCCCGAGAGCAGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG229531 representing NM\_001178054  
 Red=Cloning site Green=Tags(s)  
 MRIMLLFTAILAFSLAQSFQAVCKEPQEEVVPGGGRSKRDPDLYQLLQRLFKSHSSLEGLLKALSQASTD  
 PKESTSPEKHSPTDVNQENVPSFGILKYPPRAE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001178054.2</a>
<b>RefSeq Size:</b>	787 bp
<b>RefSeq ORF:</b>	312 bp
<b>Locus ID:</b>	6866
<b>UniProt ID:</b>	<a href="#">Q9UHF0</a>
<b>Cytogenetics:</b>	12q13.3
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Gene Summary:</b>	<p>This gene encodes a member of the tachykinin family of secreted neuropeptides. The encoded preproprotein is proteolytically processed to generate the mature peptide, which is primarily expressed in the central and peripheral nervous systems and functions as a neurotransmitter. This peptide is the ligand for the neurokinin-3 receptor. This protein is also expressed in the outer syncytiotrophoblast of the placenta and may be associated with pregnancy-induced hypertension and pre-eclampsia. Mutations in this gene are associated with normosmic hypogonadotropic hypogonadism. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]</p>