

Product datasheet for RG229531

OriGene Technologies, Inc.

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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 Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG229531 representing NM_001178054
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GCATCCTCAAGTATCCCCCGAGAGCAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229531 representing NM_001178054

Red=Cloning site Green=Tags(s)

MRIMLLFTAILAFSLAQSFGAVCKEPQEEVVPGGGRSKRDPDLYQLLQRLFKSHSSLEGLLKALSQASTD

PKESTSPEKHSPTDVNQENVPSFGILKYPPRAE

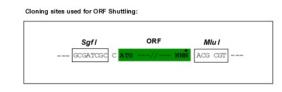
TRTRPLE - GFP Tag - V

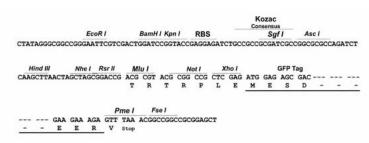
Restriction Sites: Sgfl-Mlul



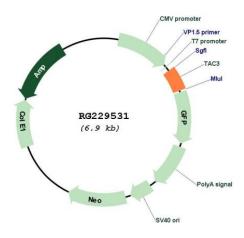


Cloning Scheme:





Plasmid Map:



ACCN: NM 001178054

ORF Size: 309 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



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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 001178054.2

RefSeq Size: 787 bp RefSeq ORF: 312 bp 6866 Locus ID: **UniProt ID:** Q9UHF0

Cytogenetics:

12q13.3 **Protein Families:** Druggable Genome, Secreted Protein

Gene Summary: 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]