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Product datasheet for RC217464

NETO1 (NM_138999) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NETO1 (NM_138999) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NETO1
Synonyms:	BCTL1; BTCL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC217464 representing NM_138999
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGGCAGAGCCATTCCCTAAGGTTGTAGCAAGTTTAATCATCCTCCATTTGTCTGGGGCAACCAAGA
AAGGAACAGAAAAGCAAACCACCTCAGAAACACAGAAGTCAGTGCAGTGTGGAACTTGGACAAAACATGC
AGAGGGAGGTATCTTTACCTCTCCCAACTATCCCAGCAAGTATCCCCCTGACCGGGAATGCATCTACATC
ATAGAAGCCGCTCCAAGACAGTGCATTGAACTTTACTTTGATGAAAAGTACTCTATTGAACCGTCTTGGG
AGTGCAAATTTGATCATATTGAAGTTCGAGATGGACCTTTTGGCTTTTCTCCAATAATTGGACGTTTCTG
TGGACAACAAAATCCACCTGTCATAAAATCCAGTGGAAGATTTCTATGGATTAAATTTTTTGCTGATGGA
GAGCTGGAATCTATGGGATTTTCAGCTCGATACAATTTCACACCTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217464 representing NM_138999
Red=Cloning site Green=Tags(s)

MLAEPFPKVVASLIILHLSGATKKGTEKQTTSETQKSVQCGTWTKHAEGGIFTSPNYPSKYPPDRECIYI
IEAAPRQCIELYFDEKYSIEPSWECKFDHIEVRDGPFGFSPIIGRFCGQQNPPVIKSSGRFLWIKFFADG
ELESMGFSARYNFTPE

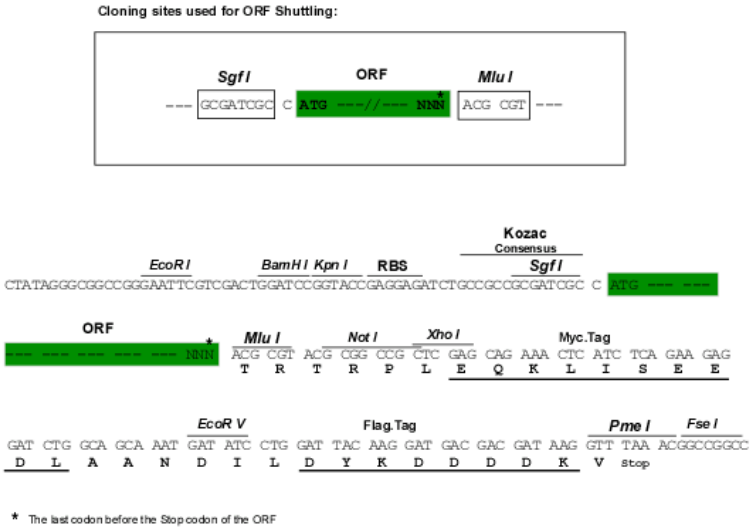
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8102_h02.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138999

ORF Size: 468 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 or by calling 301.340.3188 option 3 for pricing and delivery.

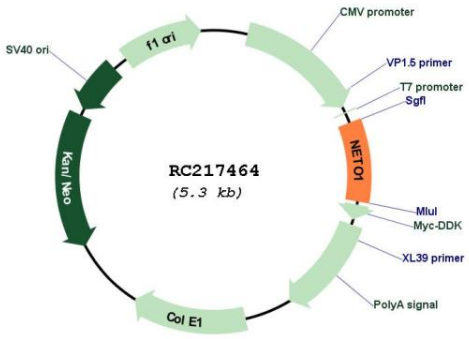
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

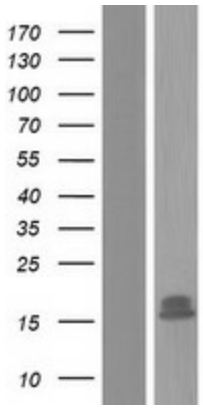
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_138999.2
RefSeq Size:	1849 bp
RefSeq ORF:	471 bp
Locus ID:	81832
UniProt ID:	Q8TDF5
Cytogenetics:	18q22.3
Protein Families:	Druggable Genome, Transmembrane
MW:	17.7 kDa
Gene Summary:	This gene encodes a transmembrane protein containing two extracellular CUB domains followed by a low-density lipoprotein class A (LDLa) domain. This protein is thought to play a critical role in spatial learning and memory by regulating the function of synaptic N-methyl-D-aspartic acid receptor complexes in the hippocampus. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RC217464



Western blot validation of overexpression lysate (Cat# [LY408430]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217464 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).