

Product datasheet for **RC214601**

NETO2 (NM_018092) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NETO2 (NM_018092) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NETO2
Synonyms:	BTCL2; NEOT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC214601 representing NM_018092
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCCCTGGAGCGGCTCTGCTCGGTCCTCAAAGTGTTGTTAATAACAGTACTGGTAGTGAAGGGATTG
 CCGTGGCCCAAAAAACCAAGATGGACAAAATATTGGAATCAAGCATATTCCTGCAACCCAGTGTGGCAT
 TTGGGTTCTGAACCAAGCAATGGAGGTCATTTTGCTTCGCCAAATTATCCTGACTCATATCCACCAACAAG
 GAGTGTATCTACATTTTGAAGCTGCTCCACGTCAAAGAATAGAGTTGACCTTTGATGAACATTATTATA
 TAGAACCATCATTTGAGTGTGGTTTGATCACTTGAAGTTCGAGATGGGCCATTTGGTTCTCTCCTCT
 TATAGATCGTTACTGTGGCGTGAAAAGCCCTCCATTAATTAGATCAACAGGAGATTGATGTGGATTAAG
 TTTAGTTCTGATGAAGAGCTTGAAGGACTGGGATTCGAGCAAAATATTCATTTATTCCAGATCCAGACT
 TTAATTACCTAGGAGGTATTTAAATCCATTCCAGATTGTCAGTTCGAGCTCTCGGGAGCTGATGGAAT
 AGTGCCTCTAGTCAGGTAGAACAAGAGGAGAAAAACCAAGCCAGCCGTTGATTGCATCTGGACC
 ATTAAAGCCACTCCAAAAGCTAAGATTTATTTGAGGTTCTAGATTATCAATGGAGCACTCAAATGAAT
 GCAAGAGAAACTTCGTTGCAGTCTATGATGGAAGCAGTCTATTGAAAACCTGAAGGCCAAGTTTTCGAG
 CACTGTGGCCAATGATGTAATGCTTAAACAGGAATTGGAGTGATTGCAATGTGGGCAGATGAAGGTAGT
 CGGCTTAGCAGGTTTCGAATGCTCTTTACTTCCTTTGTGGAGCCTCCCTGCACAAGCAGCACTTTCTTTT
 GCCATAGCAACATGTGCATCAATAATCTTTAGTCTGTAATGGTGTCCAAAATTGTGCATACCCTTGGGA
 TGAAAATCATTGTAAAGAAAAGAAAAAGCAGGAGTATTTGAACAAATCACTAAGACTCATGGAACAATT
 ATTGGCATTACTTCAGGATTGTCTTGGTCTTCTCATTATTTCTATTTTAGTACAAGTGAAACAGCCTC
 GAAAAAGGTGATGGCTTGCAAAACCGCTTTTAATAAAACCGGGTCCAGAAGTGTTCGATCCTCCTCA
 TTATGAAGTGTTCCTAAGGGACAAAGAGATTTCTGCAGACCTGGCAGACTTGTGGAAGAATTGGAC
 AACTACGAGAAGATGCGGCGCTCTCCACCGCCTCCCGCTGCATCCACGACCACCACTGTGGGTGCGAGG
 CCTCCAGCGTCAACAAAGCAGGACCAACCTCAGTTCATGGAACCTCCTTTCCGAAATGACTTTGCACA
 ACCACAGCCAATGAAAACATTTAATAGCACCTCAAGAAAAGTAGTTACACTTTCAAACAGGGACATGAG
 TGCCCTGAGCAGGCCCTGGAAGACCGAGTAATGGAGGAGATTCCTGTGAAATTTATGTCAGGGGCGAG
 AAGATTCTGCACAAGCATCCATATCCATTGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214601 representing NM_018092
 Red=Cloning site Green=Tags(s)

MALERLCSVLKVLITVLVVEGIAVAQKTQDQGNIGIKHIPATQCGIWWRTSNGGHFASPNYPDSYPPNK
 ECIYILEAAPRQRIELTFDEHYIIEPSFEFRFDHLEVRDGPFGFSPLIDRYCGVKSPLIRSTGRFMWIK
 FSSDEELEGLGFRKYSFIPDPFTYLGILNPIPDQFELSGADGIVRSSQVEEQEETKPGQAVDCIWT
 IKATPKAKIYLRFLDYQMEHSNECKRNFVAVYDGSSSIENLKAKFCSTVANDVMLKTGIGVIRMWADEGS
 RLSRFRMLFTSFVEPPCTSSTFFCHSNMCINNSLVCNGVQNCAYPWDENHCKEKKKAGVFEQITKTHGTI
 IGITSGIVLVLLIISILVQVKQPRKKVMACKTAFNKTGFQEVFDPHYELFSLRDKEISADLADLSEELD
 NYQKMRRSSTASRCIHDHHCQSQASSVKQSRTNLSMELPFRNDFAPQPMKTFNSTFKSSYTFKQGHE
 CPEQALEDRVMEEIPCEIYVRGREDSAQASISIDF

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4024_b05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_018092

ORF Size: 1575 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_018092.5](#)

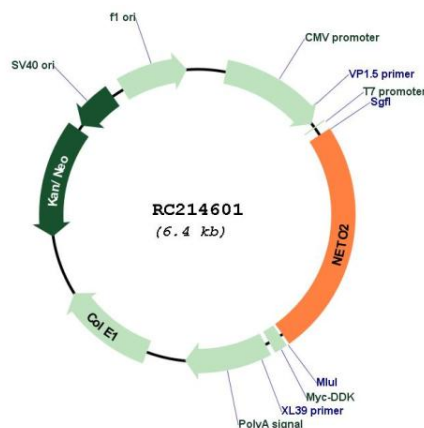
RefSeq Size: 3653 bp

RefSeq ORF: 1578 bp

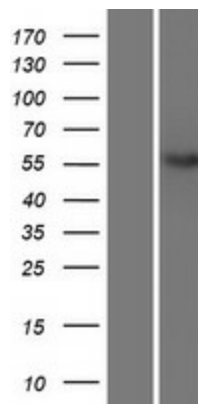
Locus ID: 81831

UniProt ID:	<u>Q8NC67</u>
Cytogenetics:	16q12.1
Domains:	CUB, ldl_recept_a
Protein Families:	Druggable Genome, Transmembrane
MW:	59.39 kDa
Gene Summary:	This gene encodes a predicted transmembrane protein containing two extracellular CUB domains followed by a low-density lipoprotein class A (LDLa) domain. A similar gene in rats encodes a protein that modulates glutamate signaling in the brain by regulating kainate receptor function. Expression of this gene may be a biomarker for proliferating infantile hemangiomas. A pseudogene of this gene is located on the long arm of chromosome 8. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]

Product images:



Circular map for RC214601



Western blot validation of overexpression lysate (Cat# [LY413317]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214601 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).