

Product datasheet for **RC208002**

NETO1 (NM_138966) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NETO1 (NM_138966) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NETO1
Synonyms:	BCTL1; BTCL1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC208002 representing NM_138966
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATCCATGGGCGCAGCGTGTTCACATTGTAGCAAGTTAATCATCCTCCATTGTCTGGGGCAACCA
 AGAAAGGAACAGAAAAGCAAACCACTCAGAAACACAGAAGTCAAGTGCAGTGTGGAACCTGGACAAAACA
 TGCAGAGGGAGGTATCTTTACCTCTCCAACTATCCCAGCAAGTATCCCCCTGACCGGGAATGCATCTAC
 ATCATAGAAGCCGCTCCAAGACAGTGCATTGAACTTTACTTTGATGAAAAGTACTCTATTGAACCGTCTT
 GGGAGTGCAAAATTTGATCATATTGAAGTTCGAGATGGACCTTTTGGCTTTTCTCCAATAATTGGACGTTT
 CTGTGGACAACAAAATCCACCTGTCATAAAATCCAGTGAAGATTTCTATGGATTAATTTTTTGTCTGAT
 GGAGAGCTGGAATCTATGGGATTTTCAGCTCGATACAATTTACACCTGATCCTGACTTTAAGGACCTTG
 GAGCTTTGAAACCATTACCAGCGTGTGAGTTTGAGATGGGCGGTTCCGAAGGAATTGTGGAGTCTATACA
 AATTATGAAGGAAGCAAAGCTACTGCTAGCGAGGCTGTTGATTGCAAGTGTACATCCGAGCACCTCCA
 CGGTCCAAGATTTACTTACGATTCTGGACTATGAGATGCAGAATTCAAATGAGTGAAGAGGAATTTTG
 TGGCTGTGTATGATGGAAGCAGTTCCTGGAGGATTTGAAAGCTAAGTTCTGTAGCACTGTGGCTAATGA
 TGTCTAGTACGCACGGGTCTTGGGGTGTCCGCATGTGGGCAGATGAGGGCAGTCGAAACAGCCGATTT
 CAGATGCTCTTACATCCTTTCAAGAACCTCCTTGTGAAGGCAACACATTTCTTCTGCCATAGTAACATGT
 GTATTAATAATACTTTGGTCTGCAATGGACTCCAGAAGTGTGTATCCTTGGGATGAAAATCACTGTAA
 AGAGAAGAGGAAAACAGCCTGCTGGACCAGCTGACCAACACCAGTGGGACTGTCATTGGCGTGACTTCC
 TGCATCGTGATCATCCTCATTATCATCTCTGTCATCGTACAGATCAAACAGCCTCGTAAAAAGTATGTCC
 AAAGGAAATCAGACTTTGACCAGACAGTTTTCCAGGAGTATTTGAACCTCCTCATTATGATTTATGCAC
 TCTCAGAGGGACAGGAGCTACAGCTGACTTTGCAGATGTGGCAGATGACTTTGAAAATTACCATAAATG
 CGGAGGTGATCTTCCAAATGCATTATGACCATCACTGTGGATCAGAGTGTCCAGCACTAAAGGACGCC
 GCAGTAACCTCAGCACAAGAGATGCTTCTATCTTACAGAGATGCCACACAGCCAGGAAAACCCCTCAT
 CCCACCCATGAACAGAAGAAATATCCTTGTGATGAAACACAACACTACTCGCAAGATGCTGCAGATGCCTGT
 GACATAGATGAAATCGAAGAGGTGCCGACCACAGTACAGGCTGTCCAGACACGATAAAGCCGTCCAGC
 GGTCTGCCTCATTGGGTCTCTAAGCAAACATGAATCTGAATACAACACAACCTAGGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208002 representing NM_138966
 Red=Cloning site Green=Tags(s)

MIHGRSVLHIVASLIILHLSGATKKGTEKQTTSETQKSVQCGTWTKHAEGGIFTSPNYPKYPDPRECIY
 IIEAAPRQCIELYFDEKYSIEPSWECKFDHIEVRDGPFGFSPIIGRFCGQNPPIKSSGRFLWIKFFAD
 GELESMGF SARYNFTPDPDFKDLGALKPLPACEFEMGGSEGIVESIQIMKEGKATASEAVDCKWYIRAPP
 RSKIYLRFLDYEMQNSNECKRNFVAVYDGSSSVEDLKAKFCSTVANDVMLRTGLGVIRMWADGSRNSRF
 QMLFTSFQEPPEGNTFFCHSNMCINNTLVCNGLQNCVYPWDENHCKEKRKTSLLDQLTNTSGTVIGVTS
 CIVIILIIISVIVQIKQPRKYYQRKSDFDQTVFQEVFEPHYELCTLRGTGATADFADVDDFENYHKL
 RRSSKCIHDHHCQSLSSTKGSRSNLSTRDASILTEMPTQPGKLIIPMNRNRLVMKHNSQDAADAC
 DIDEIEEVPTTSHRLSRHDKAVQRFCLIGLSKHESEYNTTRV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

ACCN:	NM_138966
ORF Size:	1599 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:	<ol style="list-style-type: none">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_138966.4
RefSeq Size:	6326 bp
RefSeq ORF:	1602 bp
Locus ID:	81832
UniProt ID:	Q8TDF5
Cytogenetics:	18q22.3
Domains:	CUB, ldl_recept_a
Protein Families:	Druggable Genome, Transmembrane
MW:	60.2 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]