

Product datasheet for **MG208549**

Neto1 (NM_144946) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neto1 (NM_144946) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Neto1
Synonyms:	AI851453; Btcl1; C130005O10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208549 representing NM_144946
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCTATGAGCGAGTTTGTTCACATTATAGCAAGTTAATCATCCTCCATTCTTCTGGAGCAACCA
 AGAAAGGAACAGAAAAACAATCACCCAGAAACACAGAAGTCAGTGCAGTGTGGAACGTGGACAAAGCA
 TGCAGAGGGAGGTGCTTTACGTCCTCCCAATTATCCCAGCAAATATCCCCAGACCGAGAGTGTGTCTAC
 ATCATAGAAGCTGCCCAAGGCAGTGCATTGAACTTTACTTTGATGAAAAATACTCAATCGAACCATCTT
 GGGAGTGCAAATTTGATCATATTGAAGTTCGAGATGGACCCTTTGGCTTTTCTCCAATAATTGGAAGGT
 CTGTGGACAACAGAATCCACCTGTAATAAAATCTAGTGAAGATTTCTGTGGATTAATTTTTTGTCTGAT
 GGCGAGCTGGAGTCTATGGGATTTTCAGCTCGATATAATTTACACCTGATCCCGACTTTAAGGACCTTG
 GAGTTTTGAAACCATTGCCAGCGTGTGAGTTTGAGATGGGCGGCCGGAAGGAATTGTGGAGTCCATACA
 GATTCTGAAGGAAGCAAAGCTTCTGCCAGTGAAGCCGTGGATTGCAAATGGTACATCCGAGCCCCACCA
 CGATCCAAGATTTACTTACGTTTCTTGGACTATGAGATGCAGAATTCAAATGAGTGCAAAAAGAACTTTG
 TGGCGGTCTATGACGGAAGCAGCTCCGTGGAGGATTTGAAGGCCAAGTTCTGCAGCACAGTGGCTAATGA
 CGTCATGCTGCGCACAGGCCCTTGGGTGATCCGCATGTGGGCAGACGAGGGTAGCCGTAACAGCAGGTTT
 CAGATGCTCTTCACATCCTTTCAAGAACCTCCCTGTGAAGGCAACACATTTCTTCTGCCACAGTAACATGT
 GTATTAACAACACGCTAGTCTGCAATGGGCTCCAGAAGTGTGTATATCCCTGGGATGAAAATCACTGTAA
 AGAAAAGAGGAAAACAGCCTGCTGGATCAGCTGACCAACACCAGTGGGACGGTCATTGGCGTGACTTCC
 TGCATTTGATCATCCTTATTATCGTTTCTGTCATTGTACAGATCAAACAGCCTCGTAAAAAATACGTCC
 AAAGGAAGTCAGACTTTGACCAGACCGTTTTCCAGGAGGTGTTTGAGCCTCCCACTATGAGTTATGTAC
 GCTCAGAGGAACCTGGAGCAACAGCCGACTTTGCAGACGTGGCGGAAGACTTTGAAAATTACATAAACTG
 AGGAGATCATCTTCAAATGCATCCATGACCATCACTGTGGATCCCAACTGTCCAGCGCAAAGGCAGTC
 GCAGTAACCTCAGCACAAGGGACGCTTCCATTTTGGCAGAGATACCCACACAGCCAGTCAAGCCCCTCAT
 CCCACCCGTGAACAGAAGGAACATCCTGGTCAAGAAACAACACTACTCACAAGATGCCGCCGATGCCTGT
 GACATCGACGAGATTGAGGAGGTGCCACCACAAGCCACAGGCTATCCAGACACGAAAAATCTGTCCAGC
 GGTCTGCCTCATTGGGTCTCTAAGCAAACATGAATCTGAATACAACAACACTAGGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208549 representing NM_144946
 Red=Cloning site Green=Tags(s)

MIYGRSLFHIIASLIILHSSGATKKGTEKQITPETQKSVQCCTWTKHAEGGVFTSPNYPKYPDPRECVY
 IIEAAPRQCIELYFDEKYSIEPSWECKFDHIEVRDGPFGFSPIIGRFQCGQNPPIKSSGRFLWIKFFAD
 GELESMGFSARYNFTPDPDFKDLGVLKPLPACEFEMGGPEGIVESIQILKEGKASAEAVDCKWYIRAPP
 RSKIYLRFLDYEMQNSNECKRNFVAVYDGSSEVLDLAKKFCSTVANDVMLRTGLGVIRMWAEDEGSRNSRF
 QMLFTSFQEPPEGNTFFCHSNMCINNTLVNGLQNCVYPWDENHCKEKRKTSLLDQLTNTSGTVIGVTS
 CIVIILIIIVSVIVQIKQPRKYYVQRKSDFDQTVFQEVFEPHYELCTLRGTGATADFADVAEDFENYHKL
 RRSSSKCIHDHHCQSLSAKGSRNLSTRDASILAEIPTQPVKPLIPPVNRNLI VMKHYSQDAADAC
 DIDEIEEVPTTSHRLSRHEKSVQRFCLIGLSKHESEYNTTRV

TRTRPLE - GFP Tag - V

Restriction Sites:

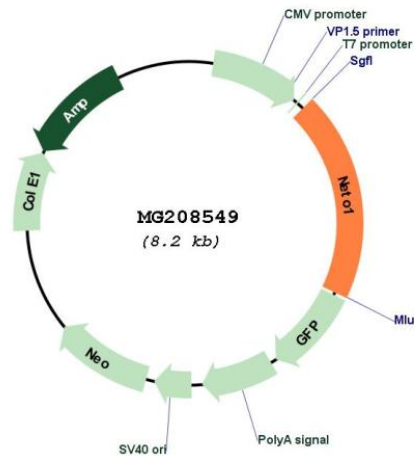
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_144946
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_144946.5
RefSeq Size:	3531 bp
RefSeq ORF:	1602 bp
Locus ID:	246317
UniProt ID:	Q8R4I7
Cytogenetics:	18 E4
Gene Summary:	Involved in the development and/or maintenance of neuronal circuitry. Accessory subunit of the neuronal N-methyl-D-aspartate receptor (NMDAR) critical for maintaining the abundance of GRIN2A-containing NMDARs in the postsynaptic density. Regulates long-term NMDA receptor-dependent synaptic plasticity and cognition, at least in the context of spatial learning and memory.[UniProtKB/Swiss-Prot Function]