

Product datasheet for **RG235130**

RTN3 (NM_001265589) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RTN3 (NM_001265589) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RTN3
Synonyms:	ASYIP; HAP; NSPL2; NSPLI; RTN3-A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG235130 representing NM_001265589 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGCCGTCGGCGGCCACTCAGTCCCATTCCATCTCCTCGTCGTCTTTCGGAGCCGAGCCGTCGG
CGCCCGCGGGCGGGAGCCAGGAGCCTGCCCGCCCTGGGGACGAAGAGCTGCAGCTCCTCTGTGC
GGATTCTTTGTTTCTTCTCTTCTCTCAGCCTGTATCTCTATTTTCGACCTACAAGAGGGATTGAGC
TCTCTTTGCTCTGATGAGCCATCTCAGAAATTATGACTTCTTCTTTTTCATCTTCTGAAATACATA
ACACTGGCCTTACAATACTACATGGAGAAAAAGCCATGTGTTAGGGAGCCAGCCTATTTTAGCCAAAGA
AGGAAAAGACCATTGGATCTTCTAGATATGAAAAGATGAAAAGCCTCAGGGGACCAGCAACAACGTA
TCAGACTTTCAGTTTCTTTCAGCAGGAGTTCATTGTGACCGTCTTCTATTCCAGCCAGTTTCCAG
AGCATCTGCTTTTCTCTCAAAGAAAATGGTCAAGTGAAGAGCAAATAGATAAAGAGACCAAGAACC
AAATGGGGTATCAAGTAGGGAGGCTAAAAGTGCATTGGATGCTGATGACAGATCACTTTGCTGACAGCC
CAGAAACCACCTACTGAGTACTTAAGGTAGAAGCATTATACATATTTTGTCTCCATCCAAAGTTT
CAGGAGATGATGTTATTGAAAAGGATCCCCTGAATCACCATTGAAGTAATTATTGACAAAAGCAGCATT
TGACAAAGAATTTAAAGACTCATATAAGGAGAGCACAGATGATTTTGGTAGCTGGTCTGTGCACACTGAT
AAAGAATCATCCGAAGACATTTTCAGAGACTAATGACAAGCTTTTCCACTGAGAAAATAAGAGGCCAGGAC
GTTACCCAATGTCTGCATTGCTCAGTAGGCAGTTTTACACACAAAATGCAGCACTGGAAGAGGTGTCCAG
ATGCGTGAATGATATGCATAACTTTACTAACGAAATACTGACTTGGGATCTGGTTCCCAAGTGAACA
CAGACCGATAAATCTTCTGACTGCATCAAAAACTACAGGACTTGCATGAGTGAATATAATTCAGAAA
TTCCAGTTGTAATCTTAAAAGTCACTCATCAGAAAATCCTGTATGTTCTATTGATGGGAGCACTCC
CATCACTAAATCAACAGGTGATTGGGCAGAAGCATCTCTCCAGCAAGAAAATGCTATTACTGAAAAACCT
GTACCTGACTCTTTGAATCCACAAAAGAAATTCAGTATCAAAGGTGTGCAAGGAATATGCAGAAACAGG
ATGACACACTTGAGAATTACCTGGATCTCCACCTGAGAAATGTGACTCTTTGGGTTCTGGAGTGGCCAC
AGTAAAAGTGGTTTTACCTGATGACCACCTGAAAGATGAAATGGACTGGCAGAGCTCTGCATTGGGAGAA



[View online >](#)

ATCACAGAAGCTGATAGTTCTGGTGAGTCTGATGACACAGTAATAGAGGACATCACAGCAGATACATCAT
 TTGAAAATAACAAAATTCCAGGCTGAAAAACCTGTTCCATTCCAAGTGCTGTTGTAAAAACAGGTGAAAG
 AGAAATCAAAGAGATTCCAGTTGTGAGAGAGAAGAAAAACATCTAAAACTTTGAAGAATTGGTCAGT
 GACTCTGAGCTGCATCAAGATCAGCCTGATATTCTTGAAGGAGTCCAGCTAGTGAGGCAGCATGTTCAA
 AAGTACCCGATACGAATGTCTCCTTAGAAGATGTGAGTGAAGTTGCTCCTGAAAAGCCTATTACTACTGA
 GAACCCCAAACTTCCTTCAACAGTGTCTCCAAATGTTTTAATGAGACAGAATTCATTAATATGTGACA
 ACATCTGCCTATTTGGAGTCATTACATGGGAAAAATGTTAAACATATAGATGATTCCTCCCCAGAGGACC
 TGATAGCAGCCTTTACAGAAACCAGAGATAAAGGAATAGTAGATAGTGAAGAAAATGCTTTTAAAGCAAT
 ATCAGAGAAGATGACAGACTTTAAAAACACTCCTCCTGTAGAAGTCTTACATGAAAATGAGTCCGGTGGT
 TCTGAAATTAAGACATTGGAAGCAAATACAGTGAACAAAGCAAAGAAACAAATGGAAGTGAACCTCTAG
 GTGTTTTCCCTACCCAAGGTACTCCAGTAGCATCTCTTGACTTAGAACAAAGAACAGCTCACAAATTAAGGC
 TCTTAAAGAAATTAGTGAAAGACAGTTGAGAAGTCAACTTCTGCACAGCGTGACGCAGAATTGCCTTCT
 GAAGAAGTACTGAAGCAAACCTTTCACATTTGCTCCAGAATCTTGCCACAGAGATCATATGACATCCTAG
 AACGTAATGTCAAGAATGGATCTGATCTTGGGATTTCCAGAAGCCATCACTATCAGAGAACTACTAG
 GGTAGATGCTGTTCCAGCCTTAGCAAGACTGAATTGGTAAAAAAGCATGCTCTAGCAAGACTTCTGACA
 GACTTCTCAGTGACGATCTGATTTTCTGGAGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACCACGC
 TGATCATGCTGCTTTCCCTGGCAGCTTTCAGTGCATCAGTGTGGTTTCTTACCTCATCCTGGCTTCTT
 CTCTGTACCATCAGCTTCCAGGATCTACAAGTCCGTCACTCAAGCTGTACAGAAGTCAGAAGAAGGCCAT
 CCATTCAAAGCCTACCTGGACGTAGACATTACTCTGTCCCTCAGAAGCTTTCCATAATTACATGAATGCTG
 CCATGGTGACATCAACAGGGCCCTGAAACTCATTATTCGTCTCTTTCTGGTAGAAGATCTGGTTGACTC
 CTTGAAGCTGGCTGTCTTATGTGGCTGATGACCTATGTTGGTGTGTTTTAACGGAATCACCCCTTCTA
 ATTCTTGTGAAGTGTCTATTTTCAAGTGTCCCGATTGTCTATGAGAAGTACAAGACCCAGATTGATCACT
 ATGTTGGCATCGCCCGAGATCAGACCAAGTCAATTGTTGAAAAGATCCAAGCAAACTCCCTGGAATCGC
 CAAAAAAAAGGCAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG235130 representing NM_001265589
 Red=Cloning site Green=Tags(s)

MAEPSAATQSHSISSSSFGAEPSAPGGGGSPGACPALGKSCSSSCADSFVSSSSQPVSLFSTSQEGLS
 SLCSDPEPSEIMTSSFLSSSEIHNTGLTILHGEKSHVLGSQPILAKEGKDHLDLLDMKMEKPGQTSNNV
 SDSSVSLAAGVHCDRPSIPASFPEHPAFLSKKIGQVEEQIDKETKNPNGVSSREAKTALDADDRFTLLTA
 QKPPEYSKVEGIYTYSLSPSKVSGDDVIEKDSPEPFEVIIDKAAFDFEFKDSYKESTDDFGSWSVHTD
 KESSEDISETNDKLFPLRNKEAGRYPMSALLSRQFSHTNAALEEVSRCVNDMHNFTNEILTDLVPQVKQ
 QTDKSSDCITKTTGLDMSEYNSEIPVVNLKSTHQKTPVCSIDGSTPITKSTGDWAEASLQQENAITGKP
 VPDSLNSTKEFSIKGVQNMQKQDDTLAELPGSPPEKCDSLGSGVATVKVVLDPDHLKDEMWDQSSALGE
 ITEADSSGESDDTVIEDITADTSFENNKIQAEKPVSIPIAVVKTGEREIKEIPSCEREKTSKNFEELVS
 DSELHQDQPDILGRSPASEAACSVPDNTVSLLEDVSEVAPEKPITPENPKLPSTVSPNVFNETEFSLNVT
 TSAYLES LHGKNVKHIDDSSPEDLIAAFTETRDKGI VDSERNAFKAI SEKMTDFKTPPVEVLHENE SGG
 SEIKDIGSKYSEQSKETNGSEPLGVFPTQGTPVASLDLEQEQLTIKALKELGERQVEKSTSAQRDAELPS
 EEVLKQTFTFAPESWPQRSYDILERNVKNNGSDLGISQKPITIRETTRVDVAVSSLKTELVKKHVLRLLT
 DFSVHDLIFWRDVKKTGFVFGTTLIMLLSAAFSVIVSVSYLILALLSVTISFRIYKSVIQAVQKSEEGH
 PFKAYLDVDITL SSEAFHNYMNAAMVHINRALKLIIRLFLVEDLVDSLKLAVFMWMLTYVGAVFNGITLL
 ILAELLIFSVPIVYEKYKTQIDHYVGIARDQTKSIVEKIQAKLPGIAKKKAE

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_001265589.2
RefSeq Size:	4976 bp
RefSeq ORF:	3099 bp
Locus ID:	10313
UniProt ID:	O95197
Cytogenetics:	11q13.1
Protein Families:	Transmembrane
Gene Summary:	This gene belongs to the reticulon family of highly conserved genes that are preferentially expressed in neuroendocrine tissues. This family of proteins interact with, and modulate the activity of beta-amyloid converting enzyme 1 (BACE1), and the production of amyloid-beta. An increase in the expression of any reticulon protein substantially reduces the production of amyloid-beta, suggesting that reticulon proteins are negative modulators of BACE1 in cells. Alternatively spliced transcript variants encoding different isoforms have been found for this gene, and pseudogenes of this gene are located on chromosomes 4 and 12. [provided by RefSeq, May 2012]