

Product datasheet for **RG221569**

TAG1 (CNTN2) (NM_005076) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAG1 (CNTN2) (NM_005076) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CNTN2
Synonyms:	AXT; FAME5; TAG-1; TAX; TAX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221569 representing NM_005076 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGACAGCCACCAGGAGGAAGCCACACCTGCTGCTGGTAGCTGCTGTGGCCCTGTCTCCTCTTCAG
CTTGGAGTTCAGCCCTGGGATCCCAAACCACTTCGGGCCTGTCTTTGAAGACCAGCCCCCTCAGTGTGCT
ATCCCAGAGGAGTCCACGGAGGAGCAGGTGTTGCTGGCATGCCGCGCCGGGCCAGCCCTCCAGCCACC
TATCGGTGAAGATGAATGGTACCGAGATGAAGCTGGAGCCAGGTTCCCGTCACCAGCTGGTGGGGGCA
ACCTGGTCATCATGAACCCACCAAGGCACAGGATGCCGGGTCTACCAGTGCCTGGCCTCAACCCAGT
GGGACCGTTGTCAGCAGGGAGGCCATCCTCCGCTTCGGCTTTCTGCAGGAATTCCTCAAGGAGGAGCGA
GACCCAGTGAAAGCTCATGAAGGCTGGGGGTGATGTTGCCCTGTAACCCACCTGCCACTACCCAGGCT
TGTCTACCGCTGGCTCCTCAACGAGTTCGCCAACTTCATCCCGACGGACGGGCGTCACTTCGTGTCCCA
GACCACAGGGAACCTGTACATTGCCGAACCAATGCCTCAGACCTGGGCAACTACTCCTGTTTGGCCACC
AGCCACATGGACTTCTCCACCAAGAGCGTCTTCAGCAAGTTTGTCTCAGCTCAACCTGGCTGCTGAAGATA
CCCGGCTCTTGCACCCAGCATCAAGGCCCGTTCAGCAGAGACCTATGCACTGGTGGGCAGCAGGT
CACCTGGAGTGTTCGCTTTGGGAACCCTGTCCCCGGATCAAGTGGCGCAAAGTGGACGGCTCCCTG
TCCCCGAGTGGACCACAGCTGAGCCACCCTGCAGATCCCAGCGTCAGCTTTGAGGATGAGGGCACCT
ACGAGTGTGAGGCGGAGAACTCCAAGGGCCGAGACACCTGCAGGCGCGCATCATCGTGCAGGCTCAGCC
TGAGTGGCTAAAAGTGATCTCGGACACAGAGGCTGACATTGGCTCCAACCTGCGTTGGGGCTGTGCAGCC
GCCGGCAAGCCCCGGCTACAGTGCCTGGCTGCGGAACGGGAGCCTCTGGCCTCCAGAACCGGTGG
AGGTGTTGGCTGGGACCTGCGTTCCTCAAGCTGAGCCTGGAAGACTCGGGCATGTACCAGTGTGTGGC
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GAGAACTTCATGGGCAAAGCCAACAGCACTGGAATCCTATCTGTGCGAGATGCAACCAAAATCACTCTAG
 CCCCTCAAGTGCCGACATCAACTTGGGTGACAACCTGACCCTACAGTGCCATGCCTCCCACGACCCAC
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 CTGGTACAAATTCGGACCACAGGGCCCGGAGGGGATGGGATCCCTGCAGAAGTCCACATCGTGGGAATG
 GAGGCACAAGCATGATGGTGGAGAACATGGCAGTCCGCCAGCACACCCTGGCACCGTCAATTTCCCA
 CTCCTGGCGATGCTGATCCTCATAGGCTCCCTGGAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221569 representing NM_005076
 Red=Cloning site Green=Tags(s)

MGTATRRKPHLLLVAVALVSSSAWSSALGSQTTFGPVFEDQPLSVLFPEESTEEQVLLACRARASPPAT
 YRWKMNGTEMKLEPGSRHQLVGGNLVIMNPTKAQDAGVYQCLASNPVGTVVSREAILRFGLQEFKEER
 DPVKAHEGWGVMPLPCNPPAHYPGLSYRWLLNEFPNFIPTDGRHFVSQTTGNLYIARTNASDLGNYSCLAT
 SHMDFSTKSVFSKFAQLNLAAEDTRLFAPSIKARFPAETYALVGQVTLCEFAFGNPVPRIKWRKVDGSL
 SPQWTTAEPTLQIPSVSFEDEGTYECEAENSKGRDVTQGRIVQAQPEWLKVISDTEADIGSNLRWGCAA
 AGKPRPTVRWLRNGEPLASQNRVEVLADLRFSLKLSLEDSGMYQCVAENKHGTIYASAEALAVQALAPDFR
 LNPVRRILPAARGEILIPCQRAAPKAVVLWSKGTEILVNSSRVTVPDGLIIRNISRDEGKYTCFA
 ENFMKANSTGILSVRDATKITLAPSSADINLGDNLTLQCHASHDPTMDLFTWTLDDFPIDFDKPGGHY
 RRTNVKETIGDLTILNAQLRHGGKYTCMAQTVVDSASKEATVLRGPPGPPGGVVVRDIGDTTIQLSWSR
 GFDNHSPIAKYTLQARTPPAGKWKQVRTNPANIEGNAETAQVGLLTPWMDYEFVRIASNILGTGEPSPGS
 SKIRTREAPSVAAPSGLSGGGAPGELIVNWTMPMSREYQNGDGFYLLSFRRQGSTHWQATARVPGADAQY
 FVYSNESVRPYTPFEVKIRSYNRRGDGPESLTALVYSAEEEEPRVAPTQVWAKGVSSSEMNVWEPVQQDM
 NGILLGYEIRYWKAGDKEAAADRVRTAGLDT SARVSGLHPNTKYHVTVRAYNRAGTGPASPSANATTMKP
 PRRRPPGNISWTFSSSSLSIKWDPVVPFRNESAVTGYKMLYQNDLHLTPTLHLTGKNWIEIPVPEDIGHA
 LVQIRTTGPGDGIPA EVHIVRNGGTSMMVENMAVRPAPHPGTVISHSVAMLILIGSLEL

TRTRPLE - GFP Tag - V

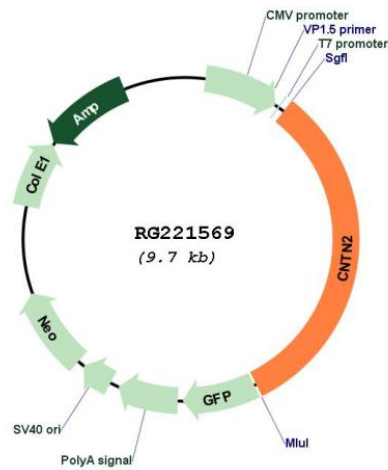
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_005076

ORF Size: 3120 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:	<u>NM_005076.5</u>
RefSeq Size:	7650 bp
RefSeq ORF:	3123 bp
Locus ID:	6900
UniProt ID:	<u>Q02246</u>
Cytogenetics:	1q32.1
Protein Pathways:	Cell adhesion molecules (CAMs)
Gene Summary:	This gene encodes a member of the contactin family of proteins, part of the immunoglobulin superfamily of cell adhesion molecules. The encoded glycosylphosphatidylinositol (GPI)-anchored neuronal membrane protein plays a role in the proliferation, migration, and axon guidance of neurons of the developing cerebellum. A mutation in this gene may be associated with adult myoclonic epilepsy. [provided by RefSeq, Sep 2016]