

Product datasheet for RC221569

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:	Myc-DDK
Symbol:	TAG1
Synonyms:	AXT; FAME5; TAG-1; TAX; TAX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221569 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGACAGCCACCAGGAGGAAGCCACACCTGCTGCTGGTAGCTGCTGTGGCCCTGTCTCCTCTTCAG
CTTGGAGTTCAGCCCTGGAATCCCAAACACCTTCGGGCTGTCTTTGAAGACCAGCCCCCAGTGTGCT
ATCCCAGAGGAGTCCACGGAGGAGCAGGTGTTGCTGGCATGCCGCGCCGGGCCAGCCCTCCAGCCACC
TATCGGTGGAAGATGAATGGTACCGAGATGAAGCTGGAGCCAGGTTCCCGTCACCAGCTGGTGGGGGCA
ACCTGGTCATCATGAACCCACCAAGGCACAGGATGCCGGGTCTACCAGTGCCTGGCCTCAACCCAGT
GGGACCGTTGTACGAGGGAGGCCATCCTCCGCTTCGGCTTTCTGCAGGAATTCCTCAAGGAGGAGCGA
GACCCAGTGAAAGCTCATGAAGGCTGGGGGTGATGTTGCCCTGTAACCCACCTGCCACTACCCAGGCT
TGTCTACCGCTGGCTCCTCAACGAGTTCGCCAACTTCATCCCAGCGGACGGGCGTCACTTCGTGTCCCA
GACCACAGGGAACCTGTACATTGCCGAACCAATGCCTCAGACCTGGGCAACTACTCCTGTTGGCCACC
AGCCACATGGACTTCTCCACCAAGAGCGTCTTCAGCAAGTTTGTCTAGCTCAACCTGGCTGCTGAAGATA
CCCGGCTCTTGCACCCAGCATCAAGGCCCGTTCACAGCAGAGACCTATGCACTGGTGGGCAGCAGGT
CACCTGGAGTGTTCGCTTTGGGAACCCTGTCCCCGGATCAAGTGGCGCAAAGTGGACGGCTCCCTG
TCCCCGAGTGGACCACAGCTGAGCCACCCCTGCAGATCCCCAGGTCAGCTTTGAGGATGAGGGCACCT
ACGAGTGTGAGGCGGAGAACTCCAAGGGCCGAGACACCTGCAGGCGCGCATCATCGTGCAGGCTCAGCC
TGAGTGGCTAAAAGTGATCTCGGACACAGAGGCTGACATTGGCTCCAACCTGCGTTGGGGCTGTGCAGCC
GCCGGCAAGCCCCGGCTACAGTGCCTGGCTGCGGAACGGGAGCCTCTGGCCTCCAGAACCAGGGTGG
AGGTGTTGGCTGGGGACCTGCGGTTCTCCAAGCTGAGCCTGGAAGACTCGGGCATGTACCAGTGTGTGGC
AGAGAATAAGCACGTTACCATCTACGCCAGCGCCGAGTACCGTGAAGCACTCGCCCCGACTTCAGG
CTGAATCCCGTGAGGCGTCTGATCCCCGCGCCCGGGGGAGAGATCCTTATCCCTGCCAGCCCCGGG
CAGCTCCAAAGGCCGTGGTGTCTGTGAGCAAAGGCACGGAGATTTTGGTCAACAGCAGCAGAGTACTGT
AACTCCAGATGGACCTTGATCATAAGAAACATCAGCCGGTCAGATGAAGCAAATACACCTGCTTTGCT



[View online »](#)

GAGAACTTCATGGGCAAAGCCAACAGCACTGGAATCCTATCTGTGCGAGATGCAACCAAAATCACTCTAG
 CCCCTCAAGTGCCGACATCAACTTGGGTGACAACCTGACCCTACAGTGCCATGCCTCCCACGACCCAC
 CATGGACCTCACCTTGACCTGGACCCTGGACGACTTCCCATCGACTTTGATAAGCCTGGAGGGCACTAC
 CGGAGAACTAATGTGAAGGAGACCATTGGGGATCTGACCATCTGAACGCCAGCTGCGCCATGGGGGA
 AGTACACGTGCATGGCCAGACGGTGGTGGACAGCGCTCAAGGAGGCCACAGTCTGGTCCGAGGTCC
 GCCAGTCCCCAGGAGGTGTGGTGGTGGGACATTGGCGACACCACATCCAGCTCAGCTGGAGCCGT
 GGCTTCGACAACCACAGCCCCATCGCTAAGTACACCCTGCAAGCTCGCACTCCACCTGCAGGGAAGTGGA
 AGCAGTTTCGGACCAATCCTGCAACATCGAGGGCAATGCCGAGACTGCACAGGTCTGGGCTCACCCC
 CTGGATGGACTATGAGTTCGGGTTCATAGCCAGCAACATTCTGGGCACTGGGGAGCCTAGTGGGCCCTCC
 AGCAAAATCCGGACCAGGGAAGCAGCCCCCTCGGTGGCACCTCAGGACTCAGCGGAGGAGGTGGAGCCC
 CCGGAGAGCTCATCGTCAACTGGACGCCATGTCACGGGAGTACCAGAACGGAGACGGCTTCGGCTACCT
 GCTGTCTTCCGACGGCAGGCAGCACTACTGGCAGACCGCCGGTGCCTGGCGCCGATGCCAGTAC
 TTTGTCTACAGCAACGAGAGCGTCCGGCCCTACACGCCCTTGGAGTCAAGATCCGACGTACAACGCC
 GCGGGGATGGGCCGAGAGCCTACTGCACTCGTGTACTCAGCTGAGGAAGAGCCAGGGTGGCCCTAC
 CAAGGTGTGGCCAAAGGGTCTCATCCTCAGAGATGAACGTGACCTGGGAACCCGTGCAGCAGGACATG
 AATGGTATCCTCCTGGGGTATGAGATCCGCTACTGGAAAGCTGGGGACAAGAAGCAGCTGCGGACCGAG
 TGAGGACAGCAGGGCTGGACACCAGTGCAGCGCTGCATCCCAACACCAAGTACCATGTGAC
 CGTGAGGGCTACAACGGGCTGGCACTGGGCCTGCCAGCCCTTCTGCCAACGCCAGCACCATGAAGCCC
 CCTCCGCGGCACCTCCTGGCAACATCTCTGGACTTTCTCAAGCTCTAGTCTTAGCATTAAAGTGGGACC
 CTGTGGTCCCTTCCGAAATGAGTCTGCAGTACCAGGCTATAAGATGCTGTACCAGAATGACTTACACCT
 GACTCCCACGCTCCACCTCACGGCAAGAACTGGATAGAAATCCCAGTGCCTGAAGACATTGGCCATGCC
 CTGGTACAAATTCGGACCACAGGGCCCGGAGGGGATGGGATCCCTGCAGAAGTCCACATCGTGGGAATG
 GAGGCACAAGCATGATGGTGGAGAATGTCAGTCCGCCAGCACACCCTGGCACCGTCAATTTCCCA
 CTCCTGGCGATGCTGATCCTCATAGGCTCCCTGGAGCTC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RC221569 protein sequence
 Red=Cloning site Green=Tags(s)

MGTATRRKPHLLLVAVALVSSSAWSSALESQTTFGPVFEDQPLSVLFPEESTEEQVLLACRARASPPAT
 YRWKMGTEMKLEPGSRHQLVGGNLVIMNPTKAQDAGVYQCLASNPVGTVVSREAILRFGLQEFKEER
 DPVKAHEGWGVMPLPCNPPAHYPGLSYRWLLNEFPNFIPTDGRHFVSQTTGNLYIARTNASDLGNYSCLAT
 SHMDFSTKSVFSKFAQLNLAEDTRLFAPSIKARFPAETYALVGQVTLCEFAFGNPVPRIKWRKVDGSL
 SPQWTTAEPTLQIPSVSFEDEGTYECEAENSKGRDVTQGRIVVQAQPEWLKVISDTEADIGSNLRWGCAA
 AGKPRPTVRWLRNGEPLASQNRVEVLGDLRFSLLEDGSMYQCVAKHGTIYASAEALAVQALAPDFR
 LNPVRRILPAARGGEILIPCQRAAPKAVVLSKGTETLVNSSRVTVTPDGLIIRNISRDEGKYTCFA
 ENFMGKANSTGILSVRDATKITLAPSSADINLGDNLTLQCHASHPTMDLFTWTLDFFIDFDKPGGHY
 RRTNVKETIGDLTILNAQLRHGGKYTCMAQTVVDSASKEATVLRGPPGPPGGVVVRDIDGTTIQLSWSR
 GFDNHSPIAKYTLQARTPPAGKWKQVRTNPANIEGNAETAQVLGLTPWMDYEFVRIASNILGTGEPSPS
 SKIRTREAPSVAAPSGLSGGGAPGELIVNWTMSREYQNGDGFYLLSFRRQGS THWQTARVPGADAQY
 FVYSNESVRPYTPFEVKIRSYNRRGDGPESLTALVYSAEEPRVAPTKVWAKGVSSSEMNVWEPVQDM
 NGILLGYEIRYWKAGDKEAAADRVRTAGLDT SARVSGLHPNTKYHVTVRAYNRAGTGPASPSANATTMKP
 PRRRPPGNISWTFSSSSLIKWDPVVPFRNESAVTYKMLYQNDLHLTPTLHLTGKNWIEIPVPEDIGHA
 LVQIRTTGPGGDGIPA EVHIVRNGGTSMMVENMAVRPAPHPGTVISHSVAMLILIGSLEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6717_b06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


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:**
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_005076.5](#)

RefSeq Size: 7670 bp

RefSeq ORF: 3123 bp

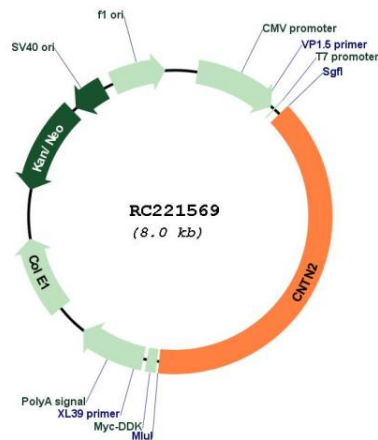
Locus ID: 6900

UniProt ID: [Q02246](#)

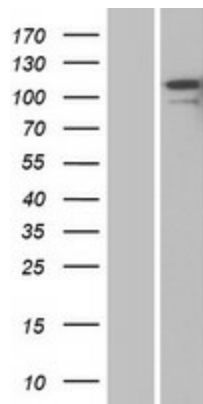
Cytogenetics: 1q32.1
Protein Pathways: Cell adhesion molecules (CAMs)
MW: 113.5 kDa

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]

Product images:



Circular map for RC221569



Western blot validation of overexpression lysate (Cat# [LY417560]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221569 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).