

Product datasheet for **RC214909**

TTYH2 (NM_032646) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TTYH2
Synonyms:	C17orf29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC214909 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCAGGCGGCGCGCTGGACTACATCGCTCCCTGGTGGGTCGTGTGGCTGCACAGCGTCCCGCAGCTCG
 GCCTGCGCCTGCAGCCCGTGAACAGCACCTTCAGCCCCGGCGACGAGATTACAGGAGTCGCTGCTGTT
 CCTGGGGCTGGTGGCCCGCTGCTGCGGCTGAACCTCATCTTCTTGTGGCTTACCTGGTCTGTGCA
 TGCCACTGCCGGCGGGACGATGCGGTGCAGACCAAGCAGCACCCTCTGCTGCATCACCTGGACGGCCG
 TGGTGGCCGGGCTCATCTGCTGTGCTGCGGTGGGCGTTGGTTTCTATGAAACAGCGAGACCAACGATGG
 GGCGTACCAGCTGATGTACTCCTTGGACGATGCCAACCACACCTTCTCTGGGATCGATGCTCTGGTTTCC
 GGAACCTACCCAGAAGATGAAGGTGGACCTAGAGCAGCACCTGGCCCGGCTCAGTGAGATCTTTGTGCC
 GGGGCGATTACCTGCAGACCCTGAAGTTCATACAGCAGATGGCGGCGAGCGTTGTTGTTAGCTCTCAGG
 ACTGCCCGTGTGGAGGGAGGTACCATGGAGCTGACCAAGCTATCCGACCAGACTGGCTACGTGGAGTAC
 TACAGGTGGCTCTCTACCTCTGCTCTTTATCCTGGACCTGGTCATCTGCCTATTGCCTGCCTGGGAC
 TGGCCAAGCGCTCCAAGTGTCTCCTGGCCTCGATGCTGTGCTGTGGGGCACTGAGCCTGCTCCTCAGTTG
 GGCATCCCTGGCCGCTGATGGCTCTGCGGCGAGTGGCCACCAGTGACTTCTGTGTGGCTCCTGACACCTTC
 ATCCTGAACGTACGGAGGGCCAGATCAGCACAGAGGTGACTCGCTACTACCTGTATTGCAGCCAGAGTG
 GAAGCAGCCCCCTTCCAGCAGACCCTGACCACCTTCCAGCGCGCACTCACCACCATGCAGATCCAGGTCCG
 GGGGCTGCTGAGTTTCCCGTGGCCCTCTTCTCCTGCTGAGAGGAAGACCTGCTTGAATCCAGCTCCTG
 CTGAACCTCTCAGAGTCCAGCCTTACCAGCTGACTGCCATGGTGGACTGCCGAGGGCTGCACAAGGATT
 ATCTGGACGCTCTTGTGGCATCTGCTACGACGGCCTCCAGGGCTTGTGTACCTTGGCCTCTTCTCCTT
 CCTGGCCGCCCTCGCCTTCTCCACCATGATCTGTGCGGGGCCAAGGGCCTGGAAGCACTTACCACCAGA
 AACAGAGAATACGATGACATTGATGATGATGACCCCTTTAACCCCCAAGCCTGGCGCATGGCGGCTCACA
 GTCCCCCGAGGGGACAGCTTCCAGCTTCTGCAGCTACAGCAGTGGCCTGGGAAGTCAAGCAGCCTGCA
 GCCCCCGGCCAGACCATCTCCAACGCCCTGTCTCCGAGTACATGAACCAAGCCATGCTCTTTGGTAGG
 AACCCACGCTACGAGAACGTGCCACTAATCGGGAGAGCCTCCCTCCGCCTACGTACTCTCCAGCATGA
 GAGCCACCTACCTGTCTGTGGCGGATGAGCACCTGAGGCACTACGGGAATCAGTTTCCAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214909 protein sequence
 Red=Cloning site Green=Tags(s)

MQAARVDYIAPWWVWLHSVPHVGLRLQPVNSTFSPGDESQESLLFLGLVAAVCLGLNLIFLVAYLVCA
 CHCRRDDAVQTKQHSCCITWAVVAGLICCAAVGVGFYGNSETNDGAYQLMYSLDDANHTFSGIDALVS
 GTTQMKMKVDLEQHLARLSEIFAARGDYLQTLKFIQQMAGSVVVQLSGLPVWREVTMELTKLSDQTYVEY
 YRWLSYLLLFILDLVICLIACLGLAKRSKLLASMLCCGALSLLLWSLAADGSAAVATSDFCVAPDTF
 ILNVTGQISTEVTRYLYCSQSGSSPFQQLTTFQRALTMMQIQVAGLLQFAVPLFSTAEDLLAIQLL
 LNSSESSLHQLTAMVDCRGLHKDYLDALAGICYDGLQGLLYLGLFSFLAALAFSTMICAGPRAWKHFTTR
 NREYDDIDDDPFNPQAWRMAAHSPPRGQLHSFCSYSSGLGSQTSQPQAQTISNAPVSEYMNQAMLFR
 NPREYENVPLIGRASPPPTYSMSRATYLSVADEHLRHYGNQFPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6447_c02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032646

ORF Size: 1602 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_032646.6](#)

RefSeq Size: 3468 bp

RefSeq ORF: 1605 bp

Locus ID: 94015

UniProt ID: [Q9BSA4](#)

Cytogenetics: 17q25.1

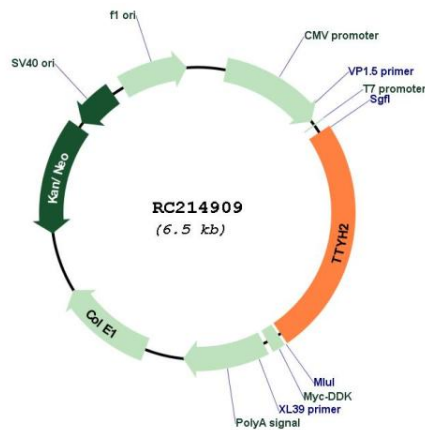
Domains: Tweety

Protein Families: Transmembrane

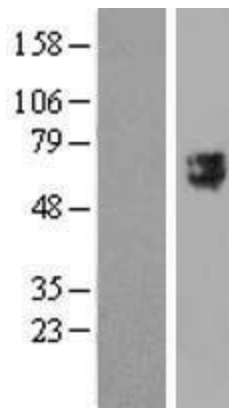
MW: 58.8 kDa

Gene Summary: This gene encodes a member of the tweety family of proteins. Members of this family function as chloride anion channels. The encoded protein functions as a calcium(2+)-activated large conductance chloride(-) channel, and may play a role in kidney tumorigenesis. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

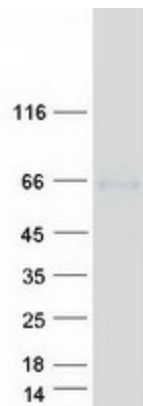
Product images:



Circular map for RC214909



Western blot validation of overexpression lysate (Cat# [LY409987]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214909 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TTYH2 protein (Cat# [TP314909]). The protein was produced from HEK293T cells transfected with TTYH2 cDNA clone (Cat# RC214909) using MegaTran 2.0 (Cat# [TT210002]).