

Product datasheet for **RC206140**

TTC29 (NM_031956) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TTC29 (NM_031956) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TTC29
Synonyms:	NYD-SP14; SPGF42; TBPP2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206140 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCACCTGCCCCACTGCCCATGACACGCCCGAAGCTTACAGCCTTAGCCAGACAGAAGCTGCCTT
GCTCCTCCAGAAAAATCCAAGGTCTCAATTGATCAAAGAAAAAGATGACATAGATCATTATCTAGAGGT
AAATTTCAAAGGATTATCAAAGAGGAAGTTGCTGCTTATAGGAAGCTTACAAGAAGAATCTGTGTG
GACATGCTGCGAGATGGTTATCATAAGTCCTTACCGAGCTCTTCGCTCTGATGGAGCGGTGGGATGCC
TGAGGGAGGCTGCGAGAGTCAGGTCCTTCTGGCTGCAGAAGCCCTGGAGGAGCAGCCTGATAAAGT
GGATTACCTGTACCATTACCTGACCAGGCTGAGGACGCTGAGAGGAAAGAATCCTTCGAAGATGTATAT
AATAACTTGTATGCTCTGGCCTGTTACTTCAATAATTCTGAAGACAAGTGGGTAAGGAACCACTTCTATG
AACGATGTTTTAAGATTGCTCAGCTGATCAAAATTGACTGTGGGAAGAAAGAACCGAGGCACACATGCA
TATGGGCTTCTCTACGAGGAAGATGGTCAGCTTCTGGAAGCTGCTGAGCATTATGAAGCATTCCATCAA
TTGACACAGGGGCGGATATGGAAGGATGAGACAGGCCGCTCTCTCAACTTGTGGCCTGTGAGAGTCTCC
TGAGGACTTACAGATTACTCTCAGACAAAATGCTAGAAAAAAGAATACAAACAGGCCATCAAAATCT
AATAAAAGCTTCTGAAAATAGCCAAAGAAGGAAGTGACAAAAAGATGGAAGCGGAAACCTTACTACTTG
GGCTTAGCACACTTAGCTGCTGAGGAATATGAAACAGCATTACAGTCCTTGACACTTACTGTAATCTC
CACAGACCTGGATGATGATCTCAGTCTGGGAGAGGCTATGAAGCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206140 protein sequence
Red=Cloning site Green=Tags(s)

MTTLPPLPMTRPKLTALARQKLPCSSRKIPRSQLIKEKDDIDHYLEVNFKGLSKEEVAAYRNSYKKNICV
 DMLRDGYHKSFTL FALMERWDALREAAVRSLFWLQKPLEEQPKLDYL YHYL TRAEDAERKESFEDVY
 NNLYALACYFNSEDKWRNHFYERCFKIAQLIKIDCGKKEAEAHMHMGLLYEEDGQLLEAAEHYEAHQ
 LTQGRWKDETGRSLNLLACESLLRTRYRLSDKMLENKEYKQAIKILIKASEIAKEGSDKKMEAETSYYL
 GLAHLAAEEYETALTVLDTYCKSPQWMMISVWGEAMKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6317_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031956

ORF Size: 957 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 Size: 1798 bp

RefSeq ORF: 1428 bp

Locus ID: 83894

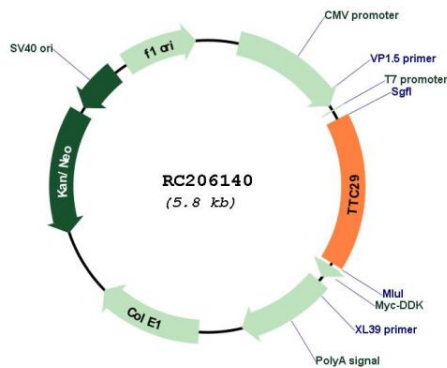
UniProt ID: [Q8NA56](#)

Cytogenetics: 4q31.22

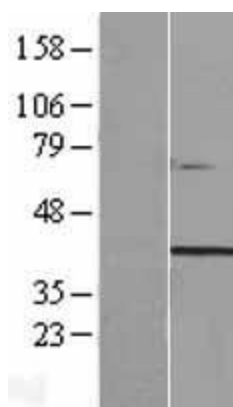
MW: 37.5 kDa

Gene Summary: Axonemal protein which is implicated in axonemal and/or peri-axonemal structures assembly and regulates flagella assembly and beating and therefore sperm motility.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC206140



Western blot validation of overexpression lysate (Cat# [LY410408]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206140 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).