

Product datasheet for **RC204288**

DYNC2I2 (NM_052844) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYNC2I2 (NM_052844) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DYNC2I2
Synonyms:	bA216B9.3; CFAP133; DIC5; FAP133; SRTD11; WDR34
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC204288 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAACCCGCGCGCAGCCGGGCCACTCAGCCAGGCGGGAAGCGCTGGTGTTCGGCGCTGGCGACAG
 TCGGGTTGCGAGCGGCCCGGGCCGGGGCGCCAGGGCCGCTGCAGGACGAGACCTGGGTGTGGCGTC
 CGTGCCCTCGCAGTGGAGGGCCGTCCAGGGCATCCGCGGGGAGACGAAAAGTTGCCAGACGGCCAGCATT
 GCCACTGCCAGTGCATCCGCCAGGCCAGGAATCATGTGGACGCCAGGTGCAGACGGAGGCCCCCGTGC
 CTGTACGCGTGCAGCCCCGTCCAGTACGACATACCCAGGCTTGCAGCCTTTCTTCGGAGAGTGGAGGC
 CATGGTATCCGAGAGCTGAACAAGAATTGGCAGAGCCACGCTTTGATGGCTTCGAGGTGAAGTGGACC
 GAGCAGCAGCAGATGGTGTCTTGTCTGTATACCCTGGGCTACCCGCCAGCCCAAGCGCAGGGTCTGCATG
 TGACCAGCATCTCCTGGAATCCACTGGCTCTGTGGTGGCCTGTGCCTACGGCCGGCTGGACCATGGGA
 CTGGAGCAGCTTAAGTCTTCGTGTGCCTGGAACCTGGACCGGCGAGACCTGCGTCCCAGCAACCG
 TCGGCCGTGGTGGAGTCCCAGCGCTGTCTGTGTCTGGCCTTCCACCCACGCAGCCCTCCCAGTTCG
 CAGGAGGGCTGTACAGTGGTGGGTGTTGGTGTGGGACCTGAGCCGCTTTCGAGGACCCGCTGCTGTGGCG
 CACAGGCTGACGGATGACACCCACACAGACCCTGTGTCCAGGTGGTGTGGCTGCCGAGCCTGGGCAC
 AGCCACCCTTCCAGGTGCTGAGTGTGGCCACTGACGGGAAGGTGCTACTCTGGCAGGGCATCGGGTAG
 GCCAGTGCAGCTCACAGAGGGCTTCGCCCTGGTATGCAGCAGCTGCCACGGAGACCAAGCTCAAGAA
 GCATCCCCGCGGGGAGACCGAGGTGGGCGCCACGGCAGTGGCCTTCTCCAGCTTTGACCCTAGGCTGTT
 ATCTGGGCACGGAAGGCGGCTTCCGCTCAAGTGTCCCTGGCAGCTGGAGAGGCAGCCCTCACGCGGA
 TGCCAGCTCCGTGCCCTGCGGGCCACGACAGTTCACCTTCCACCCACGGCGGTCCCCTACTC
 TGTGAGCTGTCCCCCTCCACAGGAATCTTCTCCTGAGCGCTGGGACTGACGGGCATGTCCACCTGTAC
 TCCATGCTGCAGGCCCTCCCTTGAATTCGCTGCAGCTCTCCCTCAAGTATCTGTTTGTGTGCGCTGGT
 CCCAGTGCAGCCCTTGGTTTTTGCAGCTGCCTCTGGAAAGGTGACGTGCAGCTGTTTGTCTCCAGAA
 AAGCTCCAGAAACCCACAGTTTTGATCAAGCAAAACCCAGGATGAAAGCCCTGTCTACTGTCTGGAGTTC
 AACAGCCAGCAGACTCAGCTCTTGGTGCAGGCGATGCCAGGGCACAGTGAAGGTGTGGCAGCTGAGCA
 CAGAGTTCACGGAACAAGGGCCCGGGAAGCTGAGGACCTGGACTGCCTGGCAGCAGAGGTGGCGGCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204288 protein sequence
 Red=Cloning site Green=Tags(s)

MATRAQPGPLSQAGSAGVAALATVGVASGPGPRPGPLQDETLGVASVPSQWRVQGIKQETKSCQTASI
 ATASASAQARNHVDAQVQTEAPVPVSVQPPSQYDIPRLAAFLRRVEAMVIRELNKNWQSHAFDGFVNW
 EQQMVSCLYTLGYPPAQQLHVTSISWNSTGSVVACAYGRLDHGDWSTLKSFVCAWNLDRDLRPQQP
 SAVVEVPSAVLCLAFHPTQPSHVAGGLYSGEVLVWDLSRLEDPLLRWRTGLTDDTHTDPVSQVWVLEP
 SHRFQVLSVATDGKVLWQIGVGLQLTEGFALVMQQLPRSTKLKHPRGETEVGATAVAFSSFPRLF
 ILGTEGGFPLKCSLAAGEAALTRMPSSVPLRAPAQFTFSPHGGPIYSVSCSPFHRNLFSLAGTDGHVHLY
 SMLQAPPLTSLQLSLKYLFAVRWSPVRPLVFAAASGKGDVQLFDLQKSSQKPTVLIKQTQDESPVYCLEF
 NSQQTQLLAAGDAQGTVKVWQLSTEFTEQGPRAEDLDCLAAEVAA

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6618_d03.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_052844

ORF Size: 1608 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_052844.3](#), [NP_443076.2](#)

RefSeq Size: 1818 bp

RefSeq ORF: 1611 bp

Locus ID: 89891

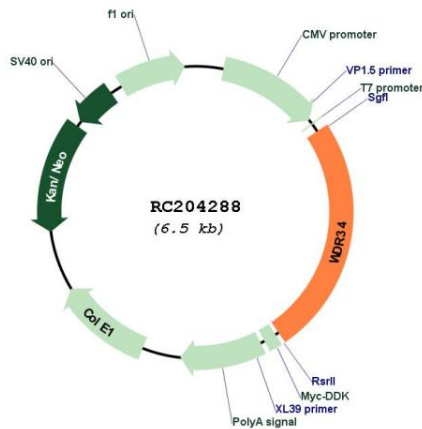
UniProt ID: [Q96EX3](#)

Cytogenetics: 9q34.11

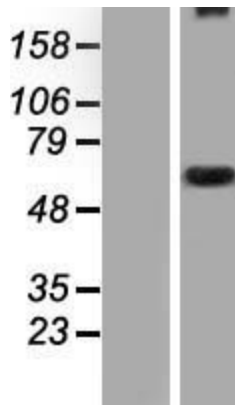
Domains: WD40
MW: 57.7 kDa

Gene Summary: This gene encodes a member of the WD repeat protein family. WD repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by gly-his and trp-asp (GH-WD), which may facilitate formation of heterotrimeric or multiprotein complexes. Members of this family are involved in a variety of cellular processes, including cell cycle progression, signal transduction, apoptosis, and gene regulation. Defects in this gene are a cause of short-rib thoracic dysplasia 11 with or without polydactyly. [provided by RefSeq, Mar 2014]

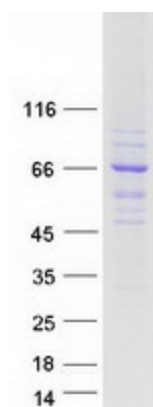
Product images:



Circular map for RC204288



Western blot validation of overexpression lysate (Cat# [LY409454]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204288 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified WDR34 protein (Cat# [TP304288]). The protein was produced from HEK293T cells transfected with WDR34 cDNA clone (Cat# RC204288) using MegaTran 2.0 (Cat# [TT210002]).