

Product datasheet for **RC208256**

DNAAF11 (NM_012472) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAAF11 (NM_012472) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNAAF11
Synonyms:	CILD19; LRRC6; LRTP; tilB; TSLRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208256 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCTGGATCACAGAAGATCTTATTAGACGGAATGCTGAACACAACGACTGTGTCATTTTTCCCTGG
 AGGAACTCTCGTTGCATCAGCAAGAAATAGAAAGACTAGAACACATTGATAAATGGTGCCGGGATTTAAA
 AATTCTCTATCTTCAAAATAATCTTATTGGGAAAATTGAAAATGTTAGCAAACCTCAAGAACTTGAATAT
 TTGAATTTAGCTTTAAACAACATTGAAAAATAGAAAACCTGGAAGGATGTGAAGAGCTGGCAAACTTG
 ACCTGACTGTGAATTTTCATTGGAGAGCTGAGCAGCATTAAAACTGCAGCACAATATCCATCTGAAGGA
 GCTCTTTCTCATGGGAACCCATGTGCTTCCTTTGACCACTATAGGGAGTTCGTGGTAGCAACTCTTCCA
 CAATTAAGTGGTTGGATGGTAAAGAAATAGAGCCTTCAGAAAGGATTAAGGCATTGCAGGACTATTCAG
 TAATTGAACCACAAATCAGAGAGCAGGAAAAAGATCACTGTCTTAAACGAGCCAACTCAAGGAAGAGGC
 TCAGAGGAAACACCAAGAAGAGGATAAAAAATGAAGACAAGAGAAGTAACGCAGGCTTTGATGGACGTTGG
 TACACAGACATCAATGCTACTCTTCTCTTTAGAGAGCAAAGACCACCTACAGGCACCAGACACAGAGG
 AACACAACACAAAGAAATTAGACAACAGTGAAGATGACTTGAATTCTGGAATAAGCCCTGTTTGTTTAC
 TCCTGAATCAAGATTGGAACTCTTAGACACATGGAAAAACAACGGAAGAAAACAGGAAAAATTAAGTGAA
 AAAAAGAAGAAAGTGAACCACCCAGGACTTTGATCACTGAAGATGGGAAAGCCCTAAATGTGAATGAGC
 CCAAAATTGACTTCTCTTTGAAAGATAACGAAAAGCAGATCATCTGGACCTTGCTGTCTATAGGTATAT
 GGATACCTCTTTAATCGATGTTGATGTGCAACCAACTTACGTGCGAGTAAATGATCAAAGGAAAGCCATTT
 CAGCTTGTCTTCTGCAGAAGTGAACCCGATAGTAGTTCTGCTAAAAGATCTCAGACAACGGGTCAAT
 TTGGTCATCTGCATGCCCAAGGTAGGAGAAGTAATCACAGGTGGTCAGCGAGCATTCAAATCTATGAAAAC
 TACCTCGGACAGGAGCAGAGAACAACAATAACAAGAAGCAAGCACATGGAGAACTAGAAGTAGACCCCT
 AGCAAGCACTCATTCCCTGATGTGACTAACATAGTTCAAGAGAAAAAACACACCCAGAAGACGACCTG
 AACCCAAAATTATACCAAGTGAGGAAGACCCAACTTTGAAGACAACCTTGAAGTGCCTCCGCTGATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208256 protein sequence
 Red=Cloning site Green=Tags(s)

MGWITEDLIRRNAEHNDVIFSLLEELSLHQEIERLEHIDKWRDLKILYLQNNLIGKIEENVSKLKKLEY
 LNLALNIEKIEINLEGCEELAKLDLTVNFIGELSSIKNLQHNIHLKELFLMGNPCASFDHYREFVATLP
 QLKWLDGKEIEPSERIKALQDYSVIEPQIREQEKDHCLKRAKLKEEAQRKHQEEEDKNEDKRSNAGFDGRW
 YTDINATLSSLESKDHLQAPDTEEHNTKKLDNSEDDLEFWNKPCLPFTPESRLETLRHMEKQRKKQEKLSE
 KKKKVKPPRTLITEDGKALNVNEPKIDFSLKDNEKQIILDLAVYRYMDTSLIDVDVQPTYVYRVMIKGKPF
 QLVLPAEVKPDSSSAKRSQTTGHLVICMPKVGEVITGGQRAFKSMKTTSDRSREQTNTRSKHMEKLEVDP
 SKHSFPDVTNIVQEKKHTPRRRPEPKIIPSEEDPTFEDNPEVPLI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6351_f06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_012472

ORF Size: 1398 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_012472.6](#)

RefSeq Size: 1888 bp

RefSeq ORF: 1401 bp

Locus ID: 23639

UniProt ID: [Q86X45](#)

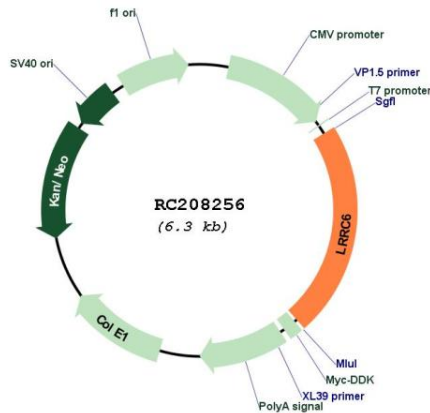
Cytogenetics: 8q24.22

Domains: LRR, LRRcap, LRR_SD22

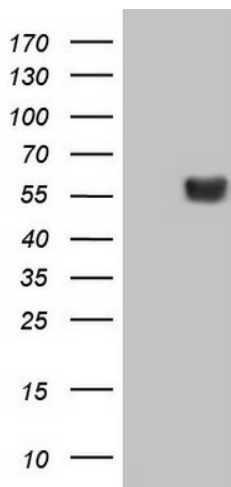
MW: 54.3 kDa

Gene Summary: The protein encoded by this gene contains several leucine-rich repeat domains and appears to be involved in the motility of cilia. Defects in this gene are a cause of primary ciliary dyskinesia-19 (CILD19). Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 4, 11 and 22. [provided by RefSeq, Apr 2016]

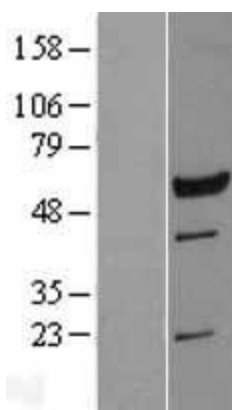
Product images:



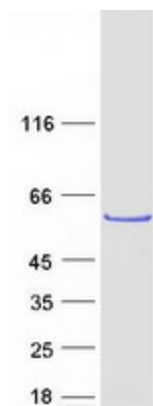
Circular map for RC208256



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY LRRC6 (Cat# RC208256, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-LRRC6 (Cat# [TA806109]). Positive lysates [LY415734] (100ug) and [LC415734] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415734]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208256 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LRRC6 protein (Cat# [TP308256]). The protein was produced from HEK293T cells transfected with LRRC6 cDNA clone (Cat# RC208256) using MegaTran 2.0 (Cat# [TT210002]).