

Product datasheet for **RR205317**

Dnaaf1 (NM_001014154) Rat Tagged ORF Clone

Product data:

| | |
|--------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Dnaaf1 (NM_001014154) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Dnaaf1 |
| Synonyms: | Lrrc50; RGD1310542 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



[View online »](#)

ORF Nucleotide Sequence:

>RR205317 representing NM_001014154
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACCCGAAGCCTCAGAGCCCGCGGTGGACAGCGCGGAGCCAGTCTGGAGGAGTCCGCAGGCG
 ATCACGGCGACGCAGGCCAGGGGTCCGCAAAGAAGAAATTAATGAGACCAAGGAAACATGTGTGGGTCC
 TTGTACAACATCCTGCCAAAGTCAGCAGCAACCGAGCGGTGACAATGGGTGAGATGGCCTCTTTACCCAC
 TCGAGAGATGACAGAGATGATCGGGGCCAGGATGACGAAGCAGTTCCTCCAAAAGCTCTGTAAGCAGC
 ACAAGCTGTACGTACCCCGGCCCTGAACGACACCCTGTATTTGCACTTTAAGGGCTTTGACCGCATTGA
 GAACCTGGAGGAGTACACGGGCTGCGCTGCCTCTGGCTGGAGTGAACGGCATCCAGAGGATCGAGAAT
 TTGCAGGCCAGAGCGAGCTGCGCTGCCTCTTCTGCAAGTGAACCTGTTGCACAAGATCGAAAACCTGG
 AGCCGCTCCAGAAGCTGGACGCCCTCAACCTGAGCAACAACACATCAAGACCATTGAGAACCTCTCCTG
 TCTGCCGTCTTAACTCTGCAAATGGCCACAACCGCTGGAGACCGTGGCAGACATTGAGCACCTC
 AGGGAGTGTCTGCAACTCTGTGTCTCGACCTCTCCACAACCTCGCTGAGTGACCCCGAGATCCTGAGCG
 TGCTTGAGACCATGCCCTGTCTGCGTGTCTGAACCTGATGGGGAACCCAGTGACCAAACACATCCCTAA
 CTACCGCAGGACGGTCACTGTCCGACTGAAGCACTTGACTTATCTGGACGACAGGCCGGTTTTCCCAAG
 GACAGGGCGTGTGCAGAGGCCTGGGCCGAGGCCGGTATGCTGCCGAGAAGGAAGAGCGTCACCAGTGGG
 AGAGCAGGGAACACAAGAAGATAACAGACAGCCTGGAAGCCTGGCCATGATCAAGCGCGCGGCCGAGGA
 ACGGAAGAAGGCAAGAGACAGAGGGGAGACCTCTGCCAGAGAGTGAAGAAGATATCCCACTAGCCCA
 GAGGCTCAGGAAAAGCCTCCCAAGGGGAAACCCAGCAGAAGATGGAGTCGTTTGTGAAAGAGAGCTTTG
 AGCCAAAAGATGAACTGTTTCCAGAGAAGCCAGGAGAAGGAGAGGAGCTGTCTGTGGTGGTGGGAATAG
 AGCAGTGGAAAGATGCAGACCTGTCCGGGAACCTGGCTCACACCCAGACACCTGTGGTGGTACCCCTGAA
 GAGGTCACATCTCCAGTGAAGCTACTGATGGGCCAGAACGGAAGACACAGAGGCCATTGCCCTGGAGA
 CCAAGGAGAAGCTTTTCATCGATGACCTGCCTGACTTGGAAGATGTTGATGGTACAGATGTGTCTGTGGA
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 GAGCTGGAGGAGCTGCCCTCTCCGTGTTGAGGGCACTCCATAAGCCCCACAGGCGCCCTCTCACACA
 TATTTGCGGTCTCAAAGACCCCTCAGAGGCAGCCAGGGTGCCTTTCGACAGACATATGTATGCCAACAGC
 AACAACAGACTTAGAAACTCAAAGTCAAGACCCAGCACAGCATCTTACACCCCTCATCCAGGAGCTC
 GGAGAGGATGAGCTGACAGAGGGAGAGTCAAACCAGCCACTGCCACCCAAAGCTGTGCAAGTGACCCCA
 CACTTGCCAGTCTAGTGAAGGTGGAGACAGTCAAGTGCCTGCAGCCACTCCACTAGGAGATGGAGCTGA
 GAATGAAGCACAGTCTTGTGTACCCAGAGGAGCCAGCACCCGGATAGGCCTGGAAGATATTGAATTT
 GGCTTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205317 representing NM_001014154
 Red=Cloning site Green=Tags(s)

MHPEASEPPVDSAAEPSLEESAGDHGDAGPVRKEEINETKETCVGPCTTSCQSQQQPSGDNGSDGLFTH
 SRDDRDRRPMRTKQFLQKLCQHKLYVTPALNDTLYLHFKGFDRIENLEEYTGRLCLWLECNGIQRIEN
 LQAQSELRCLFLQVNLHKKIENLEPLQKLDALNLSNNYIKTIENLSCLPVLNTLQMAHNRLLETVDIEHL
 RECLQLCVLDLSHNSLSDPEILSVLETMPCLRVLNLMGNPVTKHIPNYRRTVTVRLKHLTYLDDRPVFPK
 DRACAEAWARGGYAAEKEERHQWESREHKKITDSLEALAMIKRRAEERKKARDRGETPLPESEKSIPTSP
 EAQEKPPKGETQQKMEFVKESFEAKDELFPKPGEGEELSVVVGNRAVEDADLSGNLAHTQTPVVVTPTE
 EVTSPVEATDGARTEDTEAIALETKEKLFIDDLPLEDVEDVDVSVEDQTKDTGIRKIQAISSLSDDSDL
 ELEELPLSVFEGTPI SPTGALSHIFAVSKDPSEAAARVPFADICMPTATTDLETQSQDPSTASSHPLIQEL
 GEDELTEGESNQPLPPQSCASDPTLAQSSEGGDSQLPAATPLGDGAENEAQSSLYPEEPSTRIGLEDIEF
 GLD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

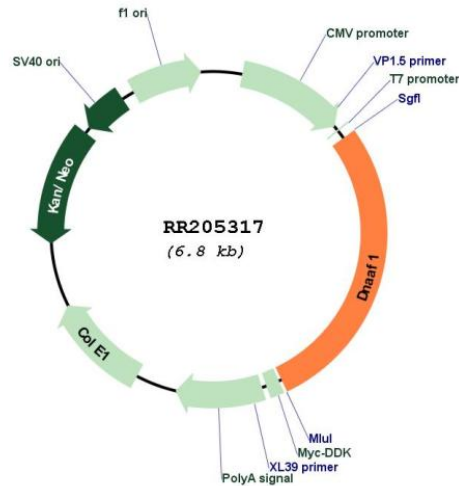
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001014154

ORF Size: 1899 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_001014154.1](#), [NP_001014176.1](#)

RefSeq Size: 2204 bp

RefSeq ORF: 1902 bp

Locus ID: 361419

UniProt ID: [Q6AYH9](#)

Cytogenetics: 19q12

MW: 70 kDa

Gene Summary: Cilium-specific protein required for the stability of the ciliary architecture. Plays a role in cytoplasmic preassembly of dynein arms (By similarity). Involved in regulation of microtubule-based cilia and actin-based brush border microvilli (By similarity).[UniProtKB/Swiss-Prot Function]