

Product datasheet for **MR221395**

Dnaaf5 (NM_001081265) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnaaf5 (NM_001081265) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dnaaf5
Synonyms:	BC053401; C76907; Heatr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221395 representing NM_001081265
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGCCGGCGGAGGCGGAGGTGGCCGCGGCCCGGGCTTAACCGAGGCGGCTGAAGCCGCGGAAC
 TGACCCGCGCGCTAAGCCGCCTGCTACCGGGCTGGAGACGAAAAGTAAGCTGGGGCGCGCGCGCTCT
 GGAGGCTCTGGAGCAGGTAAGAGAGCGGTGCGGCCCGCGCGGATTCCGCGGCCTCCAGGGCCCC
 TGGGCCGCTGCTGCTGCCGCGCTGCTGCGGCTTCTAAGCGATCCGGCCGAGGGCTGCCGCGCTGG
 CCGCTCACCTGCTCGACCTTGGCTGCGCCGCGCCGCGGCCCGCGACGCTCTGCCGCTGCTGCTGCC
 GCGCTCAGCGCACGCTGGCCGACCTGAACTCGCGCGCCGCCCGGAGCCCTGCGAGGAGCTGCGT
 CTGCGCTCGTGCAGTCTCCACCTCGCCGTAGACCTGGGCGCGCCGCGCTCGCGCCACCTGGACG
 ACGCGTGCAGCGCTTGGGGCCGCGCTGCTCGACCCCTTCGCTGCGGTGCGCCGGGAGGGCTGCGAGT
 CGCAGCCGCTCTGGCCGCTGCCACTCCGAGCACTTCCACATGCAATCGGAGTCTTGATAGGCCCTG
 ATGCAGACCATCTCCACAGCACTGGAAGTCCGGGTAGCCGTTATCGAAGCCAGGGCACTGTGATCC
 AGTTTGGCAGTGGAACTCGGTGGATGATGTCCTTTCCACTTTGCTCAAAGACTCTTCGATGACGTCCC
 TCAGGTCCGGCAGGCACTGACCTCGGTGGTCGGGGATGGCTGCTGAATCTCCGGGACCGCTACTCCTTC
 CTACACAAGCTCACCCACTGCTGCTCAGCAGCTTCAAGTGAATGCCTGAGATCCGGCAGACAGCCA
 CCAGCCTATGGGAGAAGTGGGCTGCAGTGGCAGCAGGAGAACGAGGCAGATCTAAAGGACAAGCTGGA
 CTTGCTTACCTCCTCCTCCAACTACCTGAGCAGAGAGCCGCCCTGGCCTGGGCTGCCGAGAGCTG
 GTCTTCAAGAACCTCCTCAAGGTGCTTCTGCCATCTGTATGATATCACCGACTGGTGGTGGGACGC
 GGGTGAAGCAGCACAGCTGCTGCCGCTGCTGCTGCACGAGAGGACACATCACCCAGGAGCTGGA
 GATCGTCTCAGAACCTGCATCAGGCCTGCACCGATGAAGAGAAGGCTGTGGTCGGCAGTTGCATAAGA
 GCCGAGAGCTCATTGGACCTTTGTCAGCCAGAAATTTCTGAAACTGATCTTAGCCATGCTGAAGA
 AAGCACCTCTGCCTCTGGCCTTTGATCCTCGCTTCTGTATCCGGGGCTGCCCGGAAATGCCCTCCA
 GCCACAGTACAGTATAGCCACAGAGCTGGCCAGGAGCACATCTGCCAGGGTCTGAGAATAATCTC
 TACCTGGAGCATCTGCTGCTGTGTGTCAGGCCCTGCTGTCTGTATGTCAGGAAGACTGTCGAGTGCCA
 GCCTGCAGTCTTGGAGGTGCTGGTGAATAATGGCAGTCTCAGATGCCGTGGGCTTGGAGAAGAAGGC
 CCAGAAGACCATGGACACTGGCTGAGGTGGAGGATATCCCAGCAGTCAAGACCTCTACCGCAAGCAT
 GTGGGTGCACTCTGGAGCGCTGACAGCCTCGCATGGCGAGTGGCAGTGCCTCTGTGCAAGTGTGTA
 AGTTCAGTGTGCTCCTACCCAGGACGGCCGGCTGTGGGAGAAGCGCTGCAGCATGTGATCCCCACCT
 CAGGGCCTGTCTCCAGCCCTCCACAGACCCACACATGCGCCTGAAGCTTCTCTATCCTGTCCATGATG
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 ACATGTTCTCAAGAATTCAGGGGACACCATGGAGCCAGAGAAATCCTCAAGGTCTATCCTGAGCTCTT
 GAAGCGCCTAGATGATGCTCCAATGATGTGAGGATGGCAGCTGCTTCTGCTTGGCTCACCTGGCTCAAG
 TGCATCGAGAGCTTGGATGGGAAGTCCGCCTATCAGAGCAGCGTTCAAGTTCCTGTACCGGAGCTGCTGG
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 GTTCCAGATGTGCTGGTGGGGAGACGGAGGCTGCTGTCACAAACACCGCTCAGCTACCTACTGCGAG
 CAGCTGCTGCAGCACATGCAGACCATGGCCGCTGCTCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR221395 representing NM_001081265
 Red=Cloning site Green=Tags(s)

MAAPAEAEVAAAPGLTEAAEAEELTRALSRLPLGLETESKLGRRRALEALEQVLEEAVRPGADSAAFQGP
 WARLLLPRLLRLLSDPAEGCRALAAHLLDLGLRRAARPRDALPRLLPALSARLARPELARPPPECEELR
 LALVQLLHLAVDLGGAALAPHLDDAVRALRAALLDPFAAVRREGCECAAALARATPEHFHMQSESLIGPL
 MQTISHQHWKVRVAVIEATGTVIQFGSGNSVDDVL SHFAQRLFDDVPQVRQAVTSVVGWLLNLRDRYSF
 LHKLTPLLLSSFDEMPERQTATSLWEKVLQWQQENEADLKDKLDFASPPPNYPEHESRPLGCREL
 VFRNLSKVLPAICHDITDWWVGVTRVKAQLLPVLLLHAEDHITQHLEIVLRTLHQAQCTDEEKAVVGCIR
 AAELIGTFVSPEVFLKILAMLKKAPSASGLLILASVIRGCPRNALQPHVTVIATELAQEHI CQGSNNL
 YLEHLLL CVQALLSVCQEDCRAASLQFLEVLVTIMAVSDAVGLEKKAQKTMDTLAEVEDIPSSQDL YRKH
 VGALLERLTASHGEWAVHSVQLLFTVLLTQAGPAVGEALQHVIPTLRAQLQPSTDPHMRLKLF SILSMM
 LLRPKDTVDSQGFQRYLDMVINDILAPNLQWHAGRATAAIRTAAISCLWALISSDILSAKQVQEAQETL
 MPQVLATLEDDSQTTRLMSCRIINMFLKNSGDTMEPEKFLKVPELLKRLDDVSNDRMAAASALLTWLK
 CIESLDGKSAYQSSVQFLYRELLVHLDDPESAIQDTVLEVLKEGSVLPDVLVRETEAVVHKHRSATYCE
 QLLQHMQTMAAAR

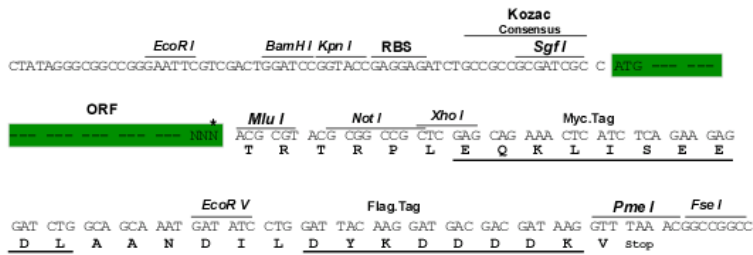
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9105_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

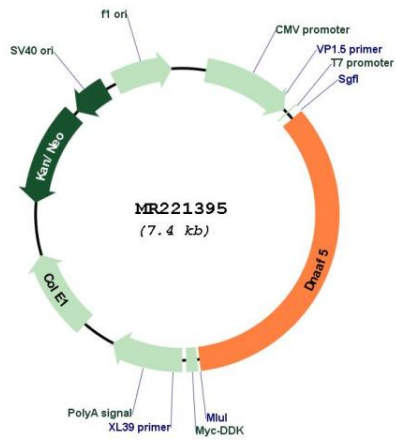
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_001081265
ORF Size:	2559 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:	<ol style="list-style-type: none">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_001081265.2
RefSeq Size:	3445 bp
RefSeq ORF:	2562 bp
Locus ID:	433956
UniProt ID:	B9EJR8
Cytogenetics:	5 G2
MW:	93.9 kDa
Gene Summary:	Cytoplasmic protein involved in the delivery of the dynein machinery to the motile cilium. It is required for the assembly of the axonemal dynein inner and outer arms, two structures attached to the peripheral outer doublet A microtubule of the axoneme, that play a crucial role in cilium motility.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221395