

Product datasheet for **RC228391**

C16orf73 (MEIOB) (NM_001163560) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	C16orf73
Synonyms:	C16orf73; gsl29; SPGF22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC228391 representing NM_001163560
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCAAACCTCTTTCAGCGAGGATTTTCACTACCTTTTCAGATCTGCAGACAAATATGGCTAATCTGA
 AAGTTATCGGTATAGTTATTGGGAAAACAGATGTCAAAGGCTTTCCAGACAGAAAAATATTGGATCAGA
 AAGGTACACTTTCAGCTTCACCATTCGGGATTCACCAGCACATTTTGTAATGCAGCTTCCTGGGGCAAT
 GAAGATTACATCAAGTCTCTTCTGACAGCTTTAGGGTTGGTGACTGTGTGATAATTGAAAACTCTCTGA
 TCCAAAGAAAGGAAATAGAAAGAGAAGAAAAATTCAGCCCTGCAACTCCTAGCAACTGTAACTGTTGCT
 CAGTGAGAATCACTCAACAGTAAAAGTTTGTTCAGTTATGAAGTGACACAAAGTTACTTTCTTTTGATA
 CATTTACCTGTTAAAGAGTCTCATGATTATTATTCAGTGGGTGACATTGTTGCAATGGACACAGCTTTA
 ATGGGAGGATTATTAACGTGCTTGACGCTGTGAAATCGGTTGGAGAGCCAAAACTTTACAACCTCAGA
 CCGGAGAAAAGGCCAGAGGTGTGAAGTTAGACTCTATGATGAAACAGAGTCGCTTTTGGCATGACATGT
 TGGGATAATGAATCCATTCTACTTGACAGAGCTGGATGCCACGAGAAACAGTAATATTGCTCAGATG
 TAAGAATAAATTTTGACAAATTTGGAAGTGCATGACAGCAACTGTAATCTCAAAAACCATTTATACAAC
 TAATCCAGATATACCAGAAGCTAACATTCTGCTGAATTTTATACGAGAAAAAAGAAACGAATGTTCTG
 GATGATGAAATTGACAGTTATTTCAAAGAATCCATAAATTTAAGTACAATAGTTGATGTCTACACAGTTG
 AACAAATTAAGGGAAAAGCTTTGAAGAATGAAGGAAAAGCTGATCCTTCCTATGGCATCCTTTATGCCTA
 CATTTCCACACTCAACATTGATGATGAAACTACAAAAGTAGTTCGAAATAGATGTTCCAGCTGTGGTTAT
 ATTGTAATGAAGCATTAACATGTGCACAACTGCAACAAAACTCCTGGACTTTAAATCTGTCTTTC
 TCAGTTTCCATGTGCTGATTGATCTGACTGATCACACAGGCACCTTCATTCTGTAGTCTACAGGAAG
 GTTGTCTGAGGAGACTTTGGGCTGCACGGTACATGAGTTTCTTGCAATGACAGATGAACAGAAAAACGCA
 TTAAGTGGAATTTCTCTTGGAAGAAGCAAAATTTATTTAAATTCGTTCTATCACACAGAGCAAGGA
 GTGGATTGAAAATTAGTGTACTCTCGTGCAAGCTTGACAGTCTACTGAGGCAAGCAGAACTGTCTCG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

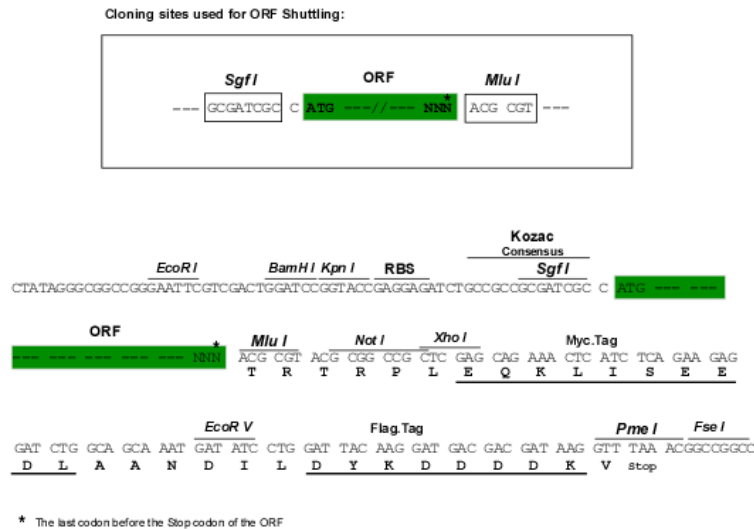
Protein Sequence: >RC228391 representing NM_001163560
 Red=Cloning site Green=Tags(s)

MANSFAARIFTTLDLQTNMANLKVIGIVIGKTDVKGFDPDRKNIGSERYTFSTIRDSPAHFVNAASWGN
 EDYIKSLSDSFRVGDVIEIENPLIQRKEIEREEKFSPATPSNCKLLLSENHSTVKVCSSYEVDTKLLSLI
 HLPVKESHDIYSLGDIVANGHSLNGRIINVLAAVKSVGEPKYFTTSDRRKGQRCEVRLYDETESSFAMTC
 WDNESILLAQSWMPTRETVIFASDVRINFDKFRNCMTATVISKTIITTNPDIPANILLNFIRENKETNVL
 DDEIDSYFKESINLSTIVDVYVEQLKGKALKNEGKADPSYGILYAYISTLNIDDETtkvvrnrcsscg
 yivneasmcttcnknsldfksvflsfhvlidltdhtgthscsltgsvaeetlgctvheflamtdeqkta
 lkwwqfllerskiylkfvlshrarsglkisvlsckladptearnlsqgkhv

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001163560

ORF Size: 1413 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

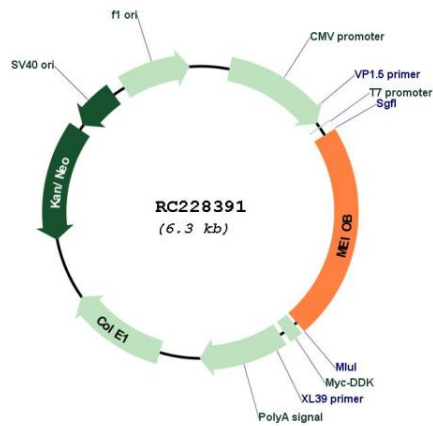
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<u>NM_001163560.3</u>
RefSeq ORF:	1416 bp
Locus ID:	254528
UniProt ID:	<u>Q8N635</u>
Cytogenetics:	16p13.3
MW:	52.7 kDa
Gene Summary:	Single-stranded DNA-binding protein required for homologous recombination in meiosis I. Required for double strand breaks (DSBs) repair and crossover formation and promotion of faithful and complete synapsis. Not required for the initial loading of recombinases but required to maintain a proper number of RAD51 and DMC1 foci after the zygotene stage. May act by ensuring the stabilization of recombinases, which is required for successful homology search and meiotic recombination. Displays Single-stranded DNA 3'-5' exonuclease activity in vitro (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC228391

□

Western validation with an anti-DDK antibody

* L: Control HEK293 lysate R: Over-expression lysate