

Product datasheet for **RC209095**

C13orf8 (CHAMP1) (NM_032436) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C13orf8 (CHAMP1) (NM_032436) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C13orf8
Synonyms:	C13orf8; CAMP; CHAMP; MRD40; ZNF828
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC209095 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGCATTCCAGGAACCTTCGTAACCATCAGCACGTTTGGAGTGTGACCATTGCAGTTTCAGAGGCA
 CAGACTATGAAAATGTACAAATCCATATGGGTACCATCCATCCAGAATTTGTGATGAAAATGGATGCTGG
 TGGGCTAGGCAAAATGATATTTTACCAGAAAAGTGCAAAGTTATTTCACTGCCATAAATGCTTCTTACC
 AGCAAGATGTAAGTCTAATGTATACTATCACATCACATCCAAACATGCATCCCCAGACAAATGGAATGATA
 AACCAAAAAATCAGTTGAACAAAGAAACAGATCCTGTGAAAAGCCCTCCTTCTTGAACACCAGAAAAT
 ACCCTGCAATTCAGCAGAACCAAAATCCATACCTGCCCTTCAATGAAAACACAGAACTTGGTTCAAGT
 TTGTCTCCAGAATCGCCAAAACCTACTCCTTACTCCCTGGAGCCTCAGAACTGGCTCTGTTGTTT
 CTCCTGAGCTACAGACACCTTCTCTTCTCCTGAGCCTTCAAACCTGCCTCTGTTTCTTCTCCTGAACC
 TCCAAAATCAGTCCCTGTTTGTGAGTCTCAGAACTTGCCCTGTTCCTTCTCCAGAACCACAGAAAACCT
 GCCCTGTATCTCCTGAGTCAGTAAAGGCTACTCTTAGTAATCCCAAACCCAGAAAGCAGTCTCATTTC
 CAGAAACATTGGGGCCACCTTCAGCCTCATCTCCAGAGTACCAGTTCTAGCTGCTTCCCCAGAACCTTG
 GGGACCATCCCCAGCTGCATCTCCAGAATCTCGGAAGTCAGCCCGGACTACCTCCCTGAGCCAAGGAAG
 CCATCCCCTTCAGAGTCTCCTGAACCTTGAAGCCATTCCCTGTGTCTCCCCAGAGCCTAGGAGACCAG
 CCCCCGTGTGTACCAGGCTCTTGAAGCCAGGCACTGGGTCCCCTAGGCCCTTGGAAATCCAATCC
 TTCAGCATCATCAGGACCTTGAAGCCAGCTAACCTGCTCCATCTGTGTCTCCTGGACCTTGGAAACCA
 ATCCTTCTGTATCTCCTGGACCTTGGAAACCACTCCATCTGTGTCTTCTGCATCCTGGAAATCTTCAT
 CAGTCTCACCCAGCTCCTGGAAGTCTCCCCGCATCTCCTGAGTCATGGAAGTCTGCCACCAGAACT
 CCGAAAGACAGCTCCACAGTTGTCTCCTGAACATTGGAAGGCAGTCCCCAGTGTCTCCAGAGCTTCGC
 AAACCCGGCCACCACTATCCCCAGAGTCCGTAGTCCAGCAGGATCTCCAGAGCTCAGAAAACCTCAG
 GGTACCAGATCTTGAAGCTTCTCCTGATCAGCGAAAACCTCCTGCTTCACTTGATTTCCCTGA
 GTCCCAGAAAAGTCCCCTGGTGGTTCTCCTGATCTCTGGAAGTCTTCTTTTTTATTGAGCCTCAGAAA
 CCTGTCTTCCCTGAGACCCGAAAACAGGTCTTCTGGGCCATCTGAGTCCCCAAAGCAGCCTCAGATA
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 AGCCCCCTCCTGCTTCTCCAGAAGCAGCAAACGTGCCCTTTTTCCAGAGCCCCGGAAGCATGCCCTTTT
 CCTGAACTCCCCAAATCTGCTCTATTCTCAGAATCACAGAAGGCTGTTGAGCTTGGTGATGAACTACAAA
 TAGATGCCATAGATGATCAAAAATGTGATATTTGGTTTCAGGAAGAACTTCTAGCTTACCTAAGAACT
 CTTAGAAGATACTTTATTTCTTCTCCTCAAAGAAGCTCAAGAAAAGACAACCAAGAGAGCTCAGACGCTGAG
 CTTAGTAGTAGTGAGTACATAAAAAACAGATTTGGATGCGATGGATATTAAGGGCCAGGAATCAAGCAGTG
 ATCAAGAGCAGGTTGATGTGGAATCCATTGATTTTAGCAAAGAGAAACAAATGGACATGACTAGTCCAGA
 GCAGTCTAGAAATGTGCTACAGTTTACTGAAGAAAAGAAAGCTTTTATCTCCGAAGAGGAGATTGCAAAA
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 TTTTGCATCATTGGTTAATAAGCATAATGTTTCATAGCCCTTACAATGCACAATCTGTGAAAGGCTTT
 TCTTTTGAATCTCCTTAAAAATCATGTAGCAGCCCATGGGCAAAGTTTACTTAAATGTCCACGTTGT
 AATTTTGAATCAAAATTTCCCAAGAGGTTTTAAGAAACATTTAACTCATTGTCAAAGCCGCATAATGAAG
 AGGCAAATAAAAAGCTAATGGAAGCTCTTGAACCGCCACTGGAGGAGCAGCAAATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209095 protein sequence
Red=Cloning site Green=Tags(s)

MEAFQELRKPSARLECDHCSFRGTDYENVQIHMGTIHPEFCDEMDAGGLGKMIFYQKSAKLFHCHKCFFT
SKMYSNVYYHITSKHASPDKWNDKPKNQLNKETDPVKSPLPEHQKIPCNSAEPKSIPALSMETQKLGSV
LSPESPKEPTLTPLEPQKPGSVVSPQLTPLPSPEPSKPASVSSPEPPKSVPVCEQKLPVPSPEPQKP
APVSPESVKATLSNPKPQKQSHFPETLGPPSASSPESVLAASPEPWGSPAAAPESRKSARTTSPEPRK
PSPSESPEPWKPFPAVSPPEPRRPAVSPGSKPGPPGSPRPWKNPSASSGPWKPAKPAPSVSPGPWK
IPSVSPGPWKPTPSVSSASWKSSSVSPSSWKSPPASPEWKSPPPELRKTAPTLSPHEWKA VPPVSPELR
KPGPPLSPEIRSPAGSPELRKPSGSPDLWKLSPDQRKTSASLDFPESQKSSRGGSPDLWKSFFIEPQK
PVFPETRKPGPSGPSESPKAASDIWKPVLSIDTEPRKPALEPEAKTAPPASPEARLALFPEPRKHALF
PELPSALFSESQKAVELGDELQIDAIDDQKCDILVQEELLASPKKLEDTLFPSSKLLKKNQESSDAE
LSSSEYIKTDLDAMDIKGQESSDQEQVDVESIDFSKENKMDMTSPEQSRNVLQFTEEKEAFISEEEIAK
YMKRGGKGYCKICCCRAMKKGAVLHHLVNKHNVHSPYKCTICGKAFLLLESLLKNHVAAHGQSLLKCPRC
NFESNFPRGFKHLTHCQSRHNEEANKKLEALEPPLLEEQQI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6524_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_032436

ORF Size: 2436 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_032436.1](#), [NP_115812.1](#)

RefSeq Size: 3831 bp

RefSeq ORF: 2439 bp

Locus ID: 283489

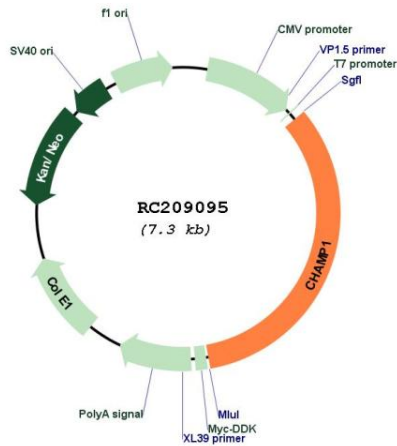
UniProt ID: [Q96JM3](#)

Cytogenetics: 13q34

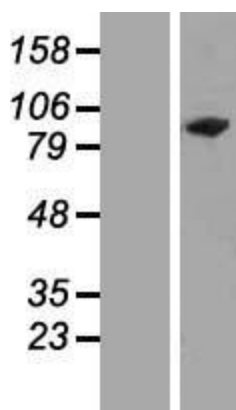
MW: 89.1 kDa

Gene Summary: This gene encodes a zinc finger protein that functions as a regulator of chromosome segregation in mitosis. The encoded protein is required for correct alignment of chromosomes on the metaphase plate, and plays a role in maintaining the attachment of sister kinetochores to microtubules from opposite spindle poles. Mutations in this gene are associated with an autosomal dominant form of intellectual disability. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RC209095



Western blot validation of overexpression lysate (Cat# [LY432044]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC229017] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).