

Product datasheet for **RC229016**

C13orf8 (CHAMP1) (NM_001164144) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C13orf8 (CHAMP1) (NM_001164144) 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:**

>RC229016 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGCATTCCAGGAACCTTCGTAACCATCAGCACGTTTGGAGTGTGACCATTGCAGTTTCAGAGGCA
 CAGACTATGAAAATGTACAAATCCATATGGGTACCATCCATCCAGAATTTGTGATGAAAATGGATGCTGG
 TGGGCTAGGCAAAATGATATTTTACCAGAAAAGTGCAAAGTTATTTCACTGCCATAAATGCTTCTCACC
 AGCAAGATGTAAGTCTAATGTATACTATCACATCACATCCAAACATGCATCCCCAGACAAATGGAATGATA
 AACCAAAAAATCAGTTGAACAAAGAAACAGATCCTGTGAAAAGCCCTCCTCTTCTGAACACCAGAAAAT
 ACCCTGCAATTCAGCAGAACCAAAATCCATACCTGCCCTTCAATGAAAACACAGAACTTGGTTCAAGT
 TTGTCTCCAGAATCGCCAAAACCTACTCCTTACTCCCTGGAGCCTCAGAACTGGCTCTGTTGTTT
 CTCCTGAGCTACAGACACCTCTTCTTCTCCTGAGCCTTCAAACCTGCCTCTGTTTCTTCTCCTGAACC
 TCCAAAATCAGTCCCTGTTTGTGAGTCTCAGAACTTGCCCTGTTCCTTCTCCAGAACCACAGAAACCT
 GCCCTGTATCTCCTGAGTCAGTAAAGGCTACTCTTAGTAATCCCAAACCCAGAAAGCAGTCTCATTCC
 CAGAAACATTGGGGCCACCTTCAGCCTCATCTCCAGAGTACCAGTTCTAGCTGCTTCCCCAGAACCTTG
 GGGACCATCCCCAGCTGCATCTCCAGAATCTCGGAAGTCAGCCCGGACTACCTCCCTGAGCCAAGGAAG
 CCATCCCCTTCAGAGTCTCCTGAACCTTGAAGCCATTCCCTGTGTCTCCCCAGAGCCTAGGAGACCAG
 CCCCCGTGTGTACCAGGCTCTTGAAGCCAGGCACTGGGTCCCCTAGGCCCTTGGAAATCCAATCC
 TTCAGCATCATCAGGACCTTGAAGCCAGCTAACCTGCTCCATCTGTGTCTCCTGGACCTTGGAAACCA
 ATTCCTTCTGTATCTCCTGGACCTTGGAAACCACTCCATCTGTGTCTTCTGCATCCTGGAAATCTTCAT
 CAGTCTCACCCAGCTCCTGGAAGTCTCCCCGCATCTCCTGAGTCATGGAAGTCTGGCCACCAGAACT
 CCGAAAGACAGCTCCACAGTTGTCTCCTGAACATTGGAAGGCAGTCCCCAGTGTCTCCAGAGCTTCGC
 AAACCCGCGCCACCACTATCCCCAGAGTCCGTAGTCCAGCAGGATCTCCAGAGCTCAGAAAACCTCAG
 GGTACCAGATCTTTGGAAGCTTCTCCTGATCAGCGAAAACCTCCTGCTTCACTTGATTTCCCTGA
 GTCCCAGAAAAGTCCCCTGGTGGTTCTCCTGATCTCTGGAAGTCTTCTTTTTTATTGAGCCTCAGAAA
 CCTGTCTTCCCTGAGACCCGAAAACAGGTCTTCTGGGCCATCTGAGTCCCCAAAGCAGCCTCAGATA
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 AGCCCCCTCCTGCTTCTCCAGAAGCAGCAAACGTGCCCTTTTTCCAGAGCCCCGGAAGCATGCCCTTTT
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 CTTAGTAGTAGTGAGTACATAAAAAACAGATTTGGATGCGATGGATATTAAGGGCCAGGAATCAAGCAGTG
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 GCAGTCTAGAAATGTGCTACAGTTTACTGAAGAAAAGAAAGCTTTTATCTCCGAAGAGGAGATTGCAAAA
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 TTTTGCATCATTGGTTAATAAGCATAATGTTTCATAGCCCTTACAATGCACAATCTGTGAAAGGCTTT
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 AATTTTGAATCAAAATTTCCCAAGAGGTTTTAAGAAACATTTAACTCATTGTCAAAGCCGCATAATGAAG
 AGGCAAATAAAAAGCTAATGGAAGCTCTTGAACCGCCACTGGAGGAGCAGCAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229016 protein sequence
Red=Cloning site Green=Tags(s)

MEAFQELRKPSARLECDHCSFRGTDYENVQIHMGTIHPEFCDEMDAGGLGKMIFYQKSAKLFHCHKCFFT
SKMYSNVYYHITSKHASPDKWNDKPKNQLNKETDPVKSPLPEHQKIPCNSAEPKSIPALSMETQKLGSV
LSPESPKEPTLTPLEPQKPGSVVSPQLTPLPSPEPSKPAVSSPEPPKSVPVCEQKLPVPSPEPQKP
APVSPESVKATLSNPKPQKQSHFPETLGPPSASSPESVLAASPEPWGSPAAAPESRKSARTTSPEPRK
PSPSESPEPWKPFPAVSPPEPRRPAVSPGSKPGPPGSPRPWKNPSASSGPWPKAKPAPSVSPGPWK
IPSVSPGPWKPTPSVSSASWKSSVSPSSWKSPPASPEWKSPPPELRKTAPTLSPHVKAVPPVSPELR
KPGPPLSPEIRSPAGSPELRKPSGSPDLWKLSPDQRKTSASLDFPESQKSSRGGSPDLWKSFFIEPQK
PVFPETRKPGPSGSESPKAASDIWKPVLSIDTEPRKPALEPEAKTAPPASPEARLALFPEPRKHALF
PELPSALFSESQKAVELGDELQIDAIDDQKCDILVQEELLASPKKLEDTLFPSSKLLKKNQESSDAE
LSSSEYIKTDLAMDIDKQESSDQEQVDVESIDFSKENKMDMTSPEQSRNVLQFTEEKAFISEEEIAK
YMKRGGKGYCKICCCRAMKKGAVLHHLVNKHNVHSPYKCTICGKAFLLLESLLKNHVAAHGQSLKCPRC
NFESNFPRGFKHLTHCQSRHNEEANKKLEALEPPLLEEQQI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_001164144

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_001164144.3](#)

RefSeq Size: 3828 bp

RefSeq ORF: 2439 bp

Locus ID: 283489

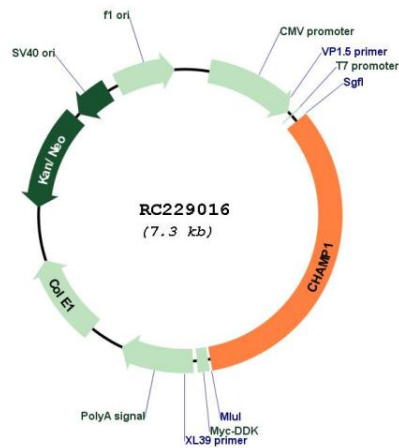
UniProt ID: [Q96JM3](#)

Cytogenetics: 13q34

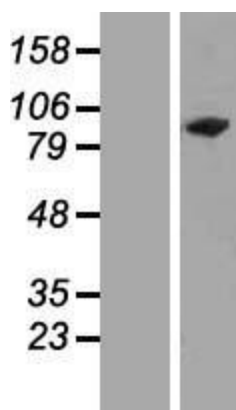
MW: 89.1 kDa

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 RC229016



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]).