

Product datasheet for **RC201298**

CHES1 (FOXN3) (NM_005197) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHES1 (FOXN3) (NM_005197) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHES1
Synonyms:	C14orf116; CHES1; PRO1635
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC201298 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTCCAGTCATGCCTCCCAGTAAGAAGCCAGAAAGCTCAGGAATTAGTGTCTCCAGTGGACTGAGTC
 AGTGTACGGGGCAGCGTTTCTCCAAGGCCCTTCAGGAAGACGATGACCTCGACTTTTCTCTGCCTGA
 CATCCGATTAGAAGAGGGGGCCATGGAAGATGAAGAGCTGACCAACCTGAACTGGCTGCACGAGAGCAAG
 AACTTGCTGAAGAGCTTTGGGGAGTCGGTCTCAGGAGTGTACGCCCGTCCAGGACCTGGACGATGACA
 CCCCCCATCCCCTGCCACTCTGACATGCCCTACGATGCCAGGCAGAACCCCAACTGCAAACCCCTTA
 CTCCTCAGCTGCCTCATATTTATGGCCATCGAGGACTCTCCAACCAAGCGCTGCCAGTGAAGGATATC
 TACAACTGGATCTTGAACATTTTCCGTATTTGCAAATGCACCTACTGGGTGAAAAACTCAGTGAGAC
 ACAATTTATCATTGAATAAGTGTTTAAGAAAGTGGACAAAGAGAGGAGTCAGAGTATTGGGAAAGGTC
 GTTGTGGTGCATAGACCCAGAGTATAGACAAAATCTAATTCAGGCTTTGAAAAAGACACCTTATCAGCA
 CACCCACACGTGTTCAATACACCTCCCACCTGTCTCAGGCATATCAAAGCACATCAGGTCACCCATCT
 GGCCGGGCGAGTACCTTCTCAAGAGAAAATGGAGCCCTTCTCAAGTTCCTCCAGGAGTGATCCAAAATGG
 AGCGCGGGTCTGAGCCGAGGGCTGTTTCTGGCGTGGCGCCGCTGCCAATCACTCCCATTGGGGTGACA
 GCGGCCATGAGGAATGGCATCACAGCTGCCGGATGCGGACTGAGAGTGAGCCATCTTGTGGCTCCCCAG
 TGGTCAGCGGAGACCCCAAGGAGGATCACAACTACAGCAGTGCCAAGTCTCCAACGCCCGGAGCACCTC
 GCCCACCAGCGACTCCATCTCCTCCTCCTCCTCAGCCGACGACCCTATGAGTTTGCACCAAGGGG
 AGCCAGGAGGGCAGCGAGGGCAGCGAGGGGAGCTTCCGGAGCCACGAGAGCCCGGACACCGGAAGAGG
 ACGACAGGAAGCACAGCCAGAAGGAGCCCAAGGATTCTCTGGGGGACAGCGGGTACGCATCCCAGCACA
 GAAGCGCCAGCACTTCGCCAAGGCCAGGAAGTCCCCAGCGACACACTGCCCTCAAAAAGAGACGCACC
 GAAAAGCCCCCGAGAGCGATGATGAGGAGATGAAAGAAGCGGCAGGGTCCCTCCTGCCTTAGCAGGGA
 TCCGGTCTGTTGAATAACATACCAATCGGACGGCAAAGGGGCAGAAAGAGCAAAGGAAACCACAAA
 AAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201298 protein sequence
 Red=Cloning site Green=Tags(s)

MGPVMPSSKPKPESSGISVSSGLSQCYGSGFSKALQEDDDLDFSLPDIRLEEGAMEDEELTNLNLHESK
 NLLKSFGEVLSVSPVQDLDDTTPSPAHSMPYDARQNPNCPPYSFSLIFMAIEDSPTKRLPVKDI
 YNWILEHFYPYFANAPTGWKNSVRHNLNLNCFKVKDKERSQSIGKGLWCIDPEYRQNLIQALKKTPYHP
 HPHVFNTPPTCPQAYQSTSGPPIWPGSTFFKRNALLQVPPGVIQNGARVLSRGLFPGVRPLPITPIGVT
 AAMRNGITSCMRTESEPSGSPVVSQDPKEDHNYSSAKSSNARSTSPSTSDSISSSSSADHDYEFATKG
 SQEGSEGESEFRSHESPSDTEEDDRKHSQKEPKDSLGDQSYASQHKRQHFQAKARKVPSDTLPLKKRRT
 EKPPESDDEEMKEAAGSLLHLGIRSLNITNRTAKGQKEQKETTCKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6206_f05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_005197

ORF Size: 1404 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_005197.4](#)

RefSeq Size: 7907 bp

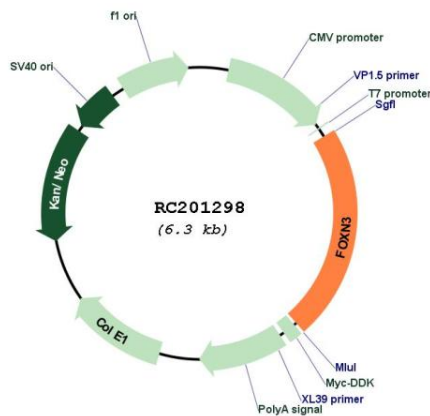
RefSeq ORF: 1407 bp

Locus ID: 1112

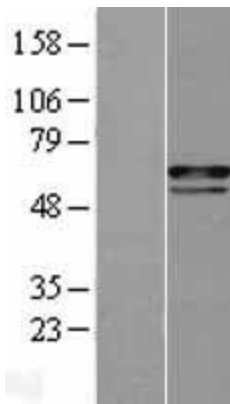
UniProt ID: [O00409](#)
Cytogenetics: 14q31.3-q32.11
Domains: FH
Protein Families: Druggable Genome, Transcription Factors
MW: 51.5 kDa

Gene Summary: This gene is a member of the forkhead/winged helix transcription factor family. Checkpoints are eukaryotic DNA damage-inducible cell cycle arrests at G1 and G2. Checkpoint suppressor 1 suppresses multiple yeast checkpoint mutations including *mec1*, *rad9*, *rad53* and *dun1* by activating a MEC1-independent checkpoint pathway. Alternative splicing is observed at the locus, resulting in distinct isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC201298



Western blot validation of overexpression lysate (Cat# [LY417453]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201298 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).