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Product datasheet for RC214368

CHES1 (FOXN3) (NM_001085471) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHES1 (FOXN3) (NM_001085471) 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:

>RC214368 representing NM_001085471
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGTCCAGTCATGCCTCCCAGTAAGAAGCCAGAAAGCTCAGGAATTAGTGTCTCCAGTGGACTGAGTC
AGTGTTACGGGGGCAGCGGTTTCTCCAAGGCCCTTCAGGAAGACGATGACCTCGACTTTTCTCTGCCTGA
CATCCGATTAGAAGAGGGGGCCATGGAAGATGAAGAGCTGACCAACCTGAACTGGCTGCACGAGAGCAAG
AACTTGCTGAAGAGCTTTGGGGAGTCGGTCCTCAGGAGTGTCAGCCCCGTCCAGGACCTGGACGATGACA
CCCCCCCATCCCCTGCCCACTCTGACATGCCCTACGATGCCAGGCAGAACCCCAACTGCAAACCCCCCTA
CTCCTTCAGCTGCCTCATATTTATGGCCATCGAGGACTCTCCAACCAAGCGCCTGCCAGTGAAGGATATC
TACAACTGGATCTTGGAACATTTTCCGTATTTTGCAAATGCACCTACTGGGTGGAAAAACTCAGTGAGAC
ACAATTTATCATTGAATAAGTGTTTTAAGAAAGTGGACAAAGAGAGGAGTCAGAGTATTGGGAAAGGGTC
GTTGTGGTGCATAGACCCAGAGTATAGACAAAATCTAATTCAGGCTTTGAAAAAGACACCTTATCACCCA
CACCCACACGTGTTCAATACACCTCCCACCTGTCCTCAGGCATATCAAAGCACATCAGGTCCACCCATCT
GGCCGGGCAGTACCTTCTTCAAGAGAAATGGAGCCCTTCTCCAAGATCCTGACATTGATGCTGCCAGTGC
CATGATGCTTTTGAATACTCCCCCTGAGATACAAGCAGGTTTTCCTCCAGGAGTGATCCAAAATGGAGCG
CGGGTCCTGAGCCGAGGGCTGTTTCCTGGCGTGCGGCCGCTGCCAATCACTCCCATTGGGGTGACAGCGG
CCATGAGGAATGGCATCACCAGCTGCCGGATGCGGACTGAGAGTGAGCCATCTTGTGGCTCCCCAGTGGT
CAGCGGAGACCCCAAGGAGGATCACAACTACAGCAGTGCCAAGTCCTCCAACGCCCGGAGCACCTCGCCC
ACCAGCGACTCCATCTCCTCCTCCTCCTCCTCAGCCGACGACCACTATGAGTTTGCCACCAAGGGGAGCC
AGGAGGGCAGCGAGGGCAGCGAGGGGAGCTTCCGGAGCCACGAGAGCCCCAGCGACACGGAAGAGGACGA
CAGGAAGCACAGCCAGAAGGAGCCCAAGGATTCTCTGGGGGACAGCGGGTACGCATCCCAGCACAAGAAG
CGCCAGCACTTCGCCAAGGCCAGGAAGGTCCCCAGCGACACACTGCCCCTCAAAAAGAGACGCACCGAAA
AGCCCCCCGAGAGCGATGATGAGGAGATGAAAGAAGCGGCAGGGTCCCTCCTGCACTTAGCAGGGATCCG
GTCCTGTTTGAATAACATCACCAATCGGACGGCAAAGGGGCAGAAAGAGCAAAAGGAAACCACAAAAAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214368 representing NM_001085471
Red=Cloning site Green=Tags(s)

MGPVMPPSKKPESSGISVSSGLSQCYGGSGFSKALQEDDDLDFSLPDIRLEEGAMEDEELTNLNWLHESK
NLLKSFGESVLRSVSPVQDLDDDTPPSPAHSDMPYDARQNPNCKPPYSFSCLIFMAIEDSPTKRLPVKDI
YNWILEHFPYFANAPTGWKNSVRHNLSLNKCFKKVDKERSQSIGKGSLWCIDPEYRQNLIQALKKTPYHP
HPHVFNTPPTCPQAYQSTSGPPIWPGSTFFKRNGALLQDPDIDAASAMMLLNTPPEIQAGFPPGVIQNGA
RVLSRGLFPGVRPLPITPIGVTAAMRNGITSCRMRTESEPSCGSPVVSGDPKEDHNYSSAKSSNARSTSP
TSDSISSSSSSADDHYEFATKGSQEGSEGSEGSFRSHESPSDTEEDDRKHSQKEPKDSLGDSGYASQHKK
RQHFAKARKVPSDTLPLKKRRTEKPPESDDEEMKEAAGSLLHLAGIRSCLNNITNRTAKGQKEQKETTKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8063_a06.zip

Restriction Sites: SgfI-MluI

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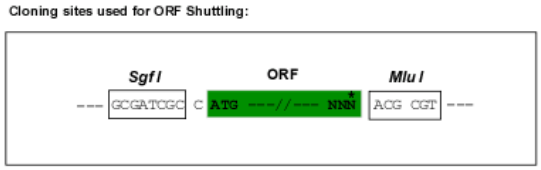
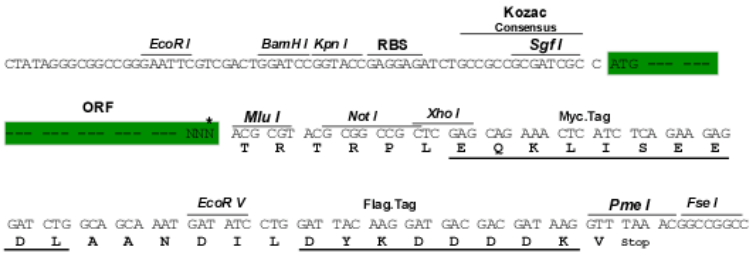
Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN: NM_001085471

ORF Size: 1470 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_001085471.2

RefSeq Size: 7856 bp

RefSeq ORF: 1473 bp

Locus ID: 1112

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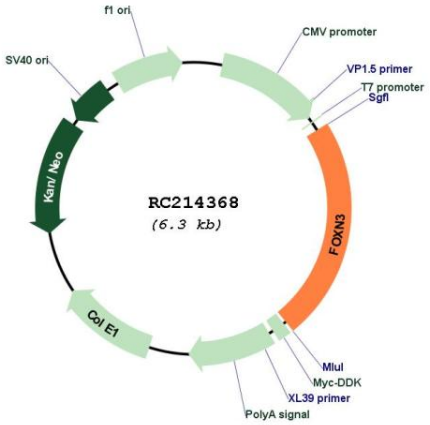
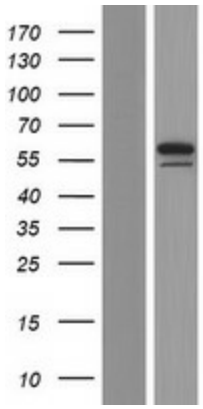
UniProt ID:	O00409
Cytogenetics:	14q31.3-q32.11
Protein Families:	Druggable Genome, Transcription Factors
MW:	53.7 kDa
Gene Summary:	This gene is a member of the forkhead/winged helix transcription factor family. Checkpoints are eukaryotic DNA damage-inducible cell cycle arrests at G1 and G2. Checkpoint 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 RC214368



Western blot validation of overexpression lysate (Cat# [LY421319]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214368 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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