

Product datasheet for **RC205643**

CHERP (NM_006387) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHERP (NM_006387) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHERP
Synonyms:	DAN16; SCAF6; SRA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC205643 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTATGGAGAAGCAGAAGGACAACCCCAAATTCTCGTTTCTTTTCGGAGCGAATTCTACAGTTACT
 ACAAGTGAAGCTGGCGCTGGAGCAGCAGCAGCTCATCTGCAAGCAGCAGACCCCGAGCTGGAGCCAGC
 CGCCACCATGCCACCCCTGCCACAGCCCCGCTGGCCCCCGCCGCGCCATCCCGCCGGCCAGGGCGCG
 CCATCCATGGACGAGCTCATCCAGCAGAGCCAGTGAACCTCCAGCAGCAGGAGCAGCACTTGCTGGCGC
 TCAGACAGGAGCAAGTGACAGCGCCGTGGCCACGCGGTGGAGCAGCAGATGCAGAAGCTTCTGGAGGA
 GACCCAGCTAGACATGAACGAGTTTGACAACCTCCTGCAGCCCATCATCGACACGTGCACCAAGGACGCC
 ATCTCGGCCGGGAAGAAGTGGATGTTGAGCAATGCCAAGTCCCCGCCGACTGTGAGCTGATGGCCGGCC
 ACCTCCGGAACCGCATCACGGCTGATGGGGCACACTTCGAGCTGCGGCTGCACCTCATCTACCTGATCAA
 TGACGTGCTGCACCACTGCCAGCGCAAGCAGGCCCGGGAGCTGCTGGCCGCCCTGCAGAAGTCTGGTGTG
 CCCATCTACTGCACCAGCTTCTTGGCCGTGGAGGAAGACAAGCAGCAGAAGATCGCCCGGCTCCTGCAGC
 TCTGGGAGAAAAACGGCTACTTCGATGACTCCATCATTAGCAGCTACAGAGCCAGCCCTGGGGCTTGG
 TCAGTACCAGGCCACCCTCATCAACGAGTACTCCTCAGTGGTCCAGCCGGTGCAGCTGGCCTTCCAGCAG
 CAGATCCAGACCCCTAAGACGCAGCAGCAGGAGTTTGTACCAGCCTGGCCAGCAGCAGCAGCAGCAGC
 AACAGCAGCAGCAGCAGCTCCAGATGCCGAGATGGAGGTGAAGTCAAGGCCACGCCTCCACCCGCTGC
 TCCACCCCGGCCCCAGCACCTGCCCTGCCATCCCGCCACCACCCAGCCTGATGACAGCAAGCCTCCC
 ATCCAGATGCCTGGCTCTTCAGAGTACGAAGTCCAGGAGGGTCCAGGATCCTGCAGCTGCCGGCCCCC
 GGGGCCCGGCCACACGACCAGATCCCACCAACAAGCCCCCTTGGTTTGACCAGCCTACCCCGTGGC
 TCCTTGGGGCCAGCAGCAGCCGAGCAGCAGCCACCCTACCCGACCACAGGGCGGCCACCCCACTGC
 CCCCCCTGGAACAACAGCCATGAGGGCATGTGGGGCAGCAGCGCGGTGACCCCGCTGGAACGGCCAGC
 GCGACGCGCCCTGGAACAACAGCCGACGCGCCCTGGAACAGCCAGTTCGAGGGCCCTGGAACAGCCA
 GCACGAGCAGCCGCTGGGGCGGGGGCCAGCGCAGCCACCCTTCCGCATGCAGCGGCCCCCACTTCC
 CGGGGGCCCTTCCCGCCCAACAGCAGCAGCCGCGATTCAACCAGCCTCCGACCCCACTTCAACC
 GCTTCCCGCCCGCTTTCATGCAGGACGACTTCCCGCCACGGCACCCCTTCGAGCGCCGCTATCCCCA
 CCGCTTCGACTACCCCAAGGGGACTTCCCTGCCGAAATGGGGCCCTCACCACCCTTGGCCACCGC
 ATGCCATCCTGGCATCAACGAGCAGCCGCTTGGGCTGGACCCAGCAGCCCTGACTTCGGCCCTCCCC
 CCCATGGCTTCAACGGGAGCCCCACACATGCGGCGACAGGGCCCGCCACATCAACCAGATGACCC
 CAGCCTGGTCCCAATGTGCCCTACTTCGATCTCCCTGCTGGGCTGATGGCCCCCTCGTGAAGCTGGAA
 GATCACGAGTACAAGCCTTTGGACCCTAAAGACATCCGCCTCCCACCCCATGCCGCCAGCGAGAGGC
 TGCTGGCTGCAGTGGAGGCCTTACAGCCCCCGTCCCACGACAGGCCAGGAACAGTGAAGGCTGGGA
 GCAGAACGGCCTATGAGTTCTTCCGAGCAAAAATGCGGGCCCGGGGAGGAAAGGCCAGGAGAAGAGG
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 AAGTCGACTCCCAAGGAAGAAGACGCGCGTACGGTCCAGGAGCCCAACCCGCTTCTCTGCTGGTC
 TGGTTCTAATTCGCGCCTCCATTCTGACTCAAGGCTCGGAGAAGAGAACAAGGCCATCAGATGCT
 GGTGAAGATGGGCTGGAGCGCTCAGGCGCCTCGGTGCGAAGGAGCAAGGGATCCAGGACCCCATCAAG
 GGCGGGGACGTCGGGATAAGTGGGACCAGTATAAAGGCGTGGGCGTGGCTCTGGATGACCCCTATGAGA
 ACTACCGAGGAACAAGAGCTACTCCTTCATCGCCGCATGAAGGCCAGGGACGAGTGTAAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205643 protein sequence
 Red=Cloning site Green=Tags(s)

MTMEKQKDNPKFSFLFGGEFYSSYKCKLALAEQQQLICKQQTPELEPAATMPPLPQPPLAPAAPIPPAQGA
 PSMDLEIQSQWNLQQEQHLLALRQEQVTA AVAHAVEQQMQKLEETQLDMNEFDNLLQPIIDTCTKDA
 ISAGKNWFMFNAKSPPHCELMAGHLRNRITADGAHFELRLHLIYLINDVLHHCQRKQARELLAALQKVVV
 PIYCTSF LAVEEDKQK IARLLQLWEKNGYFDDSI IQQLQSPALGLGQYQATLINEYSSVVQPVQLAFQQ
 QIQTLKTQHEEFVTSLAQQQQQQQQQQQLQMPQMEAEVKATPPPPAPPAPAPAPAIPTTQPDDSKPP
 IQMPGSSEYEAPGGVQDPAAGPRGPGPHDQIPPNKPPWFDQPHPVAPWGQQQPPEQPPYPHHQGGPPHC
 PPWNNSHEGMWGEQRGDPGWNGQRDAPWNNQPDAAWNSQFEGPWNSQHEQPPWGGGQREPPFRMQRPPHF
 RGFPPPHQHPQFNQPPHPHNFNRFPPRFMQDDFPPRHPFERPPYPHRFDYPQGDFAEMGPPHHHPGHR
 MHPGINEHPPWAGPQHPDFGPPPHGFNGQPPHMRRQPPHINHDDPSLVPNVYFDLPAGLMAPLVKLE
 DHEYKPLDPKD IRLPPPMPSSERLLAAVEAFYSPPSHDRPRNSEGWEQNGLYEF FRAKMRARRRRKGQEKR
 NSGPSRSRSRSKSRGRSSRSNSRSSKSSGSYSRSRSRSCRSYSRSRSRSRSRSRSRSRSRSRSRSRSRS
 KSYSPGRRRRRSRSRSPTPSSAGLGSNSAPP IPDSRLGEENKGHQLVKMGWGSGLGAKEQGIQDPIK
 GGDVRDKWDQYKGVGVALDDPYENYRRNKSYSF IARMKARDECK

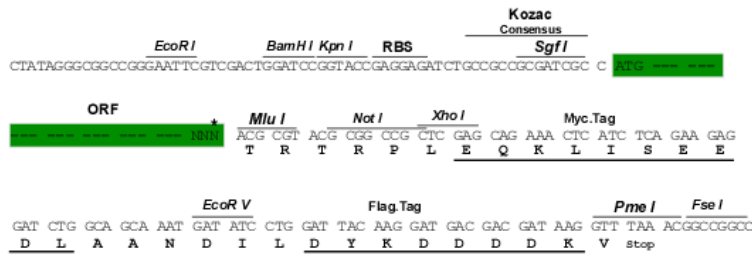
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6203_a10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

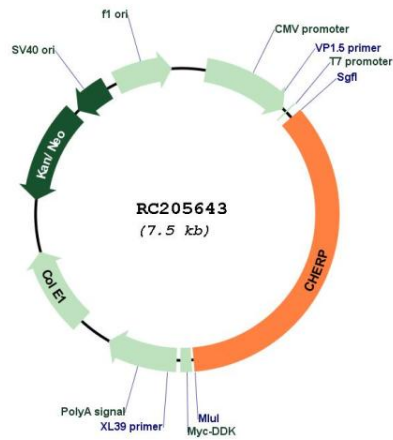
Cloning sites used for ORF Shuttling:



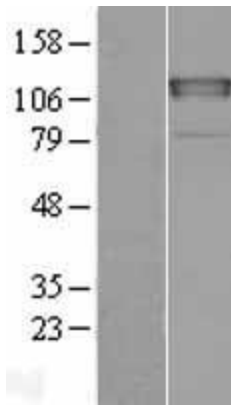
* The last codon before the Stop codon of the ORF

ACCN:	NM_006387
ORF Size:	2652 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:	<ol style="list-style-type: none">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_006387.4 , NP_006378.2
RefSeq Size:	4105 bp
RefSeq ORF:	2751 bp
Locus ID:	10523
UniProt ID:	Q8IWX8
Cytogenetics:	19p13.11
Domains:	Surp, G-patch
Protein Pathways:	Spliceosome
MW:	100 kDa
Gene Summary:	Involved in calcium homeostasis, growth and proliferation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC205643



Western blot validation of overexpression lysate (Cat# [LY401919]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205643 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).