

Product datasheet for MR205471

Chad (NM_007689) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chad (NM_007689) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chad
Synonyms:	SLRR4A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205471 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCGCGCTCTTATTCAGTCTGGTCTTTCTTGCCATCCTCCTGCCTGCGCTGGCCGCTGCCCC
AAAAGTGCCTGCTGATGGAGATCTGCAGCATGTCATCTGCGACAAGGTGGGGCTGCAGAAGATCCCCAA
GGTATCAGAGACAACAACTGCTCAATCTCCAGCGCAACAACCTCCCGGTGCTGGCTGCCAACTCGTTT
CGGACCATGCCAACCTGGTCTCCCTGCACCTGCAACACTGCAACATCCGCGAGGTGGCGCTGGTGCCT
TCCGAGGCTGAAGCAGCTTATCTACCTGTACCTGTCCACAACGACATCCGGGTATTGCGAGCTGGAGC
CTTCGACGACCTGACTGAACTCACTTACCTCTATCTAGACCACAACAAAGTGTCCGAACTGCCCCGGGG
TTGCTCTCTCCTCTGGTCAACCTCTTATCTTGAACCTCAACAACAACAAATCCGAGAGCTGCGTGTCTG
GAGCTTTCCAGGGGGCAAGGACCTGCGCTGGCTTACCTGTGAGAAAATGCCCTCAGTTCCCTGCAGCC
TGGTTCCTCGGATGATGTGGAGAACCTAGCCAAGTTCCACCTGGACAAGAACCAGCTGTCTAGCTACCCC
TCAGCCGCCCTGAGCAAACCTCGGGTGGTGGAGGAGCTGAAGCTGTCTCACAAACCTCTGAAGAGCATCC
CAGACAATGCCTTCCAGTCTTCGGTAGATATCTGGAGACCCTCTGGCTGGATAACACCAACCTGGAGAA
GTTCTCAGATGCTGCCTTCTCGGGTGTGACCACACTGAAACACGTCCATCTGGACAACAACCGCTGAAC
CAACTGCCTTCCCTTCCCTTTGACAACCTGGAGACCCTCACTCTACCAACAACCCATGGAAATGCA
CCTGCCAGCTCCGTGGCCTTCGGCGGTGGTTGGAAGCCAAGGCTTCTCGACCGGATGCTACCTGCTCCTC
GCCAGCCAAGTCAAGGGTCAGCGGATTCGTGACACAGATGCCCTTCGCAGCTGCAAATCCCCGACCAAG
AGGTCCAAGAAAGCTGGCCGCAT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205471 protein sequence
 Red=Cloning site Green=Tags(s)

MARALLFSLVFLAILLPALAACPNCHCHGDLQHVICDKVGLQKIPKVSETTKLLNLQRNNFPVLAANSF
 RTMPNLVSLHLQHCNIREVAAGAFRGLKQLIYL YL SHNDIRVLRAGAFDDL TEL TYLYLDHNKVSELPRG
 LLSPLVNLFILQLNKKIREL RAGAFQGAKDLRWLYL SENALSSLQPGSLDDVENLAKFHLDKNQLSSYP
 SAALSKLRVVEELKLSHNPLKSI PDNAFQSFGRYLETLWLDNTNLEKFS DAAFSGVTTLKHVHLDNNRLN
 QLPSSFFPDNLETLTLTNNPWKCTCQLRGLRRWLEAKASRPDATCSSPAKFKGQIRDTDALRSCKSPTK
 RSKKAGRH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007689

ORF Size: 1077 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_007689.3](#)

RefSeq Size: 1653 bp

RefSeq ORF: 1077 bp

Locus ID: 12643

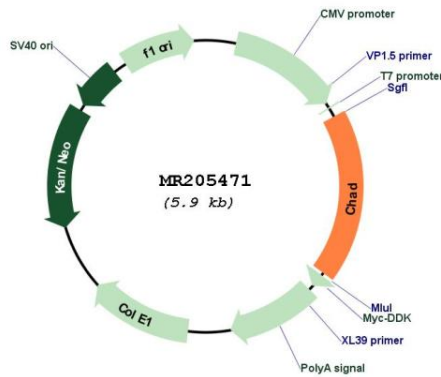
UniProt ID: [O55226](#)

Cytogenetics: 11 58.9 cM

MW: 40.3 kDa

Gene Summary: Promotes attachment of chondrocytes, fibroblasts, and osteoblasts. This binding is mediated (at least for chondrocytes and fibroblasts) by the integrin alpha(2)beta(1). May play an important role in the regulation of chondrocyte growth and proliferation (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205471