

Product datasheet for **MG205471**

Chad (NM_007689) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chad (NM_007689) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chad
Synonyms:	SLRR4A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205471 representing NM_007689 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCGCGCTCTTATTAGTCTGGTCTTTCTTGCCATCCTCCTGCCTGCGCTGGCCGCTGCCCC
AAACTGCCACTGCCATGGAGATCTGCAGCATGTCATCTGCGACAAGGTGGGGCTGCAGAAGATCCCCAA
GGTATCAGAGACAACAACTGCTCAATCTCCAGCGCAACAACCTCCCGGTGCTGGCTGCCAACTCGTTT
CGGACCATGCCGAACCTGGTCTCCCTGCACCTGCAACACTGCAACATCCGCGAGGTGGCGGCTGGTGCCT
TCCGAGGCTGAAGCAGCTTATCTACCTGTACCTGTCCCACAACGACATCCGGGTATTGCGAGCTGGAGC
CTTCGACGACCTGACTGAACTCACTTACCTCTATCTAGACCACAACAAAGTGTGCGAACTGCCCCGGGG
TTGCTCTCTCCTCTGGTCAACCTCTTACCTTGCAACTCAACAACAAATCCGAGAGCTGCGTGCTG
GAGCTTTCCAGGGGGCCAGGACCTGCGCTGGCTCTACCTGTGAGAAAATGCCCTCAGTTCCTGCGAGCC
TGGTTCCTGGATGATGTGGAGAACCTAGCCAAGTTCCACCTGGACAAGAACCAGCTGTCTAGCTACCCC
TCAGCCGCCCTGAGCAAACCTCGGGTGGTGGAGGAGCTGAAGCTGTCTCACAAACCTCTGAAGAGCATCC
CAGACAATGCCTTCCAGTCTTCGGTAGATATCTGGAGACCCTCTGGCTGGATAACACCAACCTGGAGAA
GTTCTCAGATGCTGCCTTCTCGGGTGTGACCACACTGAAACACGTCCATCTGGACAACAACCGCCTGAAC
CAACTGCCTTCTCCTTCCCCTTTGACAACCTGGAGACCCTCACTCTACCAACAACCCATGGAATGCA
CCTGCCAGCTCCGTGGCCTTCGGCGGTGGTTGGAAGCCAAGGCTTCTCGACCGGATGCTACCTGCTCCTC
GCCAGCCAAGTTCAAGGGTCAGCGGATTCTGTGACACAGATGCCCTTCGCGAGCTGCAAATCCCCGACCAAG
AGGTCCAAGAAAGCTGGCCGCCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG205471 representing NM_007689
 Red=Cloning site Green=Tags(s)

MARALLFSLVFLAILLPALAACPNCHCHGDLQHVICDKVGLQKIPKVSETTKLLNLQRNNFPVLAANSF
 RTMPNLVSLHLQHCNIREVAAGAFRGLKQLIYL YL SHNDIRVL RAGAFDDL TEL TYL YLDHNKVSEL PRG
 LLSPLVNLFILQLNNNKIRELRAGAFQGAQDLRWLYL SENALSSLQPGSLDDVENLAKFHLDKNQLSSYP
 SAALSKLRVVEELKLSHNPLKSIPDNAFQSFGRYLETLWLDNTNLEKFSDAAFSGVTTLKHVHLDNNRLN
 QLPSSFPPFDNLETLTLTNNPWKCTCQLRGLRRWLEAKASRPDATCSSPAKFKGQIRDTDALRSCKSPTK
 RSKKAGRH

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_007689

ORF Size: 1074 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_007689.3](#)

RefSeq Size: 1748 bp

RefSeq ORF: 1077 bp

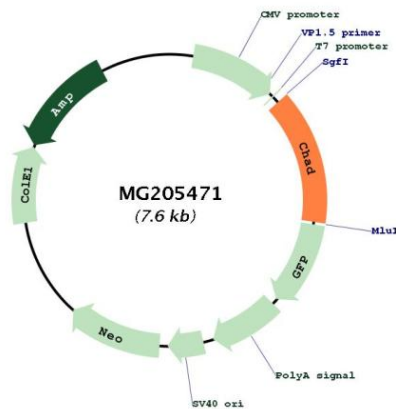
Locus ID: 12643

UniProt ID: [O55226](#)

Cytogenetics: 11 58.9 cM

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 MG205471