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Product datasheet for MR228705

Cd63 (NM_001282966) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd63 (NM_001282966) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd63
Synonyms:	C75951; ME491; Tspan30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR228705 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGTGGAAGGAGGAATGAAGTGTGTCAAGTTTTTGCTCTACGTTCTCCTGCTGGCCTTCTGCGCCT
GTGCAGTGGGATTGATCGCCATTGGTGTAGCGGTTCAGGTTGTCTTGAAGCAGGCCATTACCCATGAGAC
TACTGCTGGCTCGCTGTTGCCTGTGGTCATCATTGCAGTGGGTGCCTTCCTCTTCCTGGTGGCCTTTGTG
GGCTGCTGTGGGGCCTGCAAGGAGAACTACTGTCTCATGATTACATTTGCCATCTTCCTGTCTCTTATCA
TGCTTGTGGAGGTGGCTGTGGCCATTGCTGGCTATGTGTTTAGAGACCAGGTGAAGTCAGAGTTTAATAA
AAGCTTCCAGCAGCAGATGCAGAATTACCTTAAAGACAACAAAACAGCCACTATTTTGGACAAATTGCAG
AAAGAAAATAACTGCTGTGGAGCTTCTAACTACACAGACTGGGAAAACATCCCCGGCATGGCCAAGGACA
GAGTCCCCGATTCTTGCTGCATCAACATAACTGTGGGCTGTGGGAATGATTTCAAGGAATCCACTATCCA
TACCCAGGGCTGCGTGGAGACTATAGCAATATGGCTAAGGAAGAACATACTGCTGGTGGCTGCAGCGGCC
CTGGGCATTGCTTTTGTGGAGGTCTTGGGAATTATCTTCTCCTGCTGTCTGGTGAAGAGTATTCGAAGTG
GCTATGAAGTAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

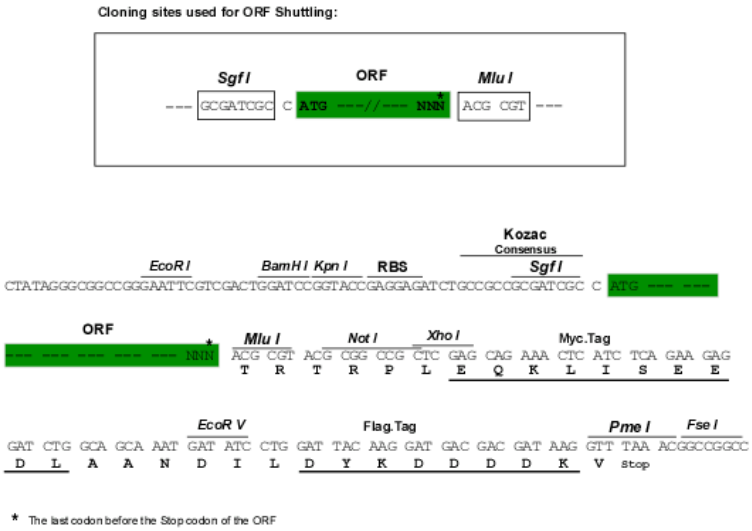
>MR228705 protein sequence
Red=Cloning site Green=Tags(s)

MAVEGGMKCVKFLLYVLLLAFCACAVGLIAIGVAVQVVLKQAITHETTAGSLLPVVIIAVGAFLFLVAFV
GCCGACKENYCLMITFAIFLSLIMLVEVAVAIAGYVFRDQVKSEFNKSFQQQMQNYLKDNKTATILDKLQ
KENNCCGASNYTDWENIPGMAKDRVPDSCCINITVGCGNDFKESTIHTQGCVETIAIWLRKNILLVAAAA
LGIAFVEVLGIIFSCCLVKSIRSGYEVM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001282966

ORF Size: 717 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_001282966.1, NP_001269895.1

RefSeq Size: 999 bp

RefSeq ORF: 717 bp

Locus ID: 12512

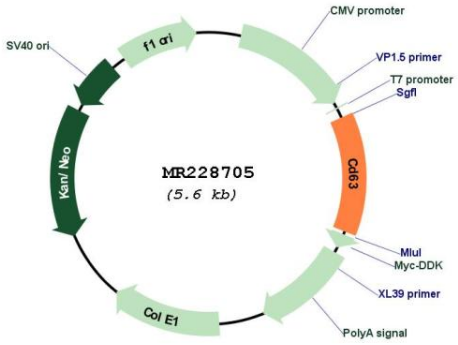
UniProt ID: P41731

Cytogenetics: 10 77.19 cM

MW: 25.8 kDa

Gene Summary: Functions as cell surface receptor for TIMP1 and plays a role in the activation of cellular signaling cascades. Plays a role in the activation of ITGB1 and integrin signaling, leading to the activation of AKT, FAK/PTK2 and MAP kinases. Promotes cell survival, reorganization of the actin cytoskeleton, cell adhesion, spreading and migration, via its role in the activation of AKT and FAK/PTK2. Plays a role in VEGFA signaling via its role in regulating the internalization of KDR/VEGFR2. Plays a role in intracellular vesicular transport processes, and is required for normal trafficking of the PMEL luminal domain that is essential for the development and maturation of melanocytes. Plays a role in the adhesion of leukocytes onto endothelial cells via its role in the regulation of SELP trafficking. May play a role in mast cell degranulation in response to Ms4a2/FceRI stimulation, but not in mast cell degranulation in response to other stimuli.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR228705