

Product datasheet for MR229784

Dcstamp (NM_001289508) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dcstamp (NM_001289508) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Dcstamp
Synonyms: 4833414I07Rik; DC-STAMP; FIND; mDC-STAMP; Tm7sf4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229784 representing NM_001289508
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCTCTGGACCTTGGGCACCAGTATTTCTGAGGCTTTGGGGACTTATGTGTTCCACGAAGCC
 CTAGCTGGCTGGACTTCATCCAGCATTTGGGAGTCTGTTGCTTTGTGGCCTTCCTTCGGTGAGCCTCTT
 CTCTGCAGCCTTTACTGGATCCTGCCACCCGTTGCCCTGCTCTCTTCTGTCTGGATGATCACCTGTGTT
 TTCCTATGCTGTTCCAAGCGCGCAGGATGCTTCATTCTTCTGGCCGTTCTGTCTGTGGCCCTCCGTGAAG
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 TAAAAACGGTACTGAAGCCATCCAGTGGATTACGGCCTTGCCACTCCGCTGAATCTATTTGATGACC
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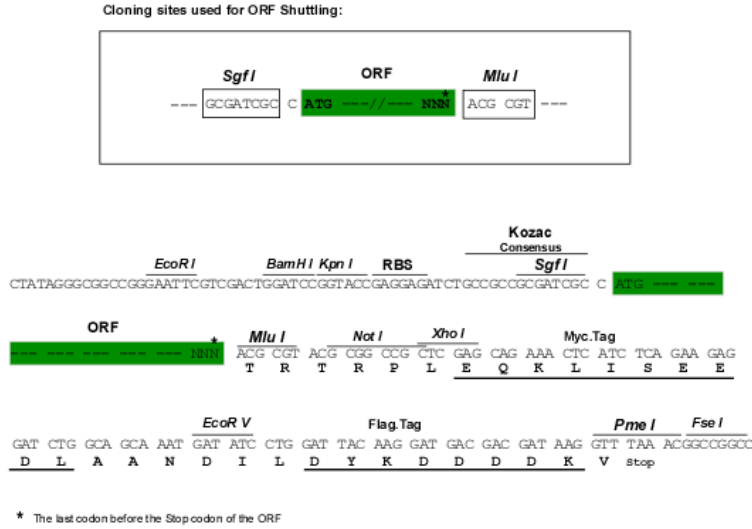
Protein Sequence: >MR229784 representing NM_001289508
 Red=Cloning site Green=Tags(s)

MRLWTLGTSIFLRLWGTYYFPRSPSWLDFIQHLGVCCFVAFLSVSLFSAAFYWILPPVALLSSVWMITCV
 FLCCSKRARC FILLAVL SCGLREGRNALIAAGTGVIIFGHVENIFYNFRGLLDSMTCNLRAKSFVHFPL
 LKRYTEAIQWIYGLATPLNLFDDLVSWNQTLVSVLFSPSHALEAHMNDTRGEVLGVLHMMVVTTELLTSV
 GQKLLALAGLLILVSTGLFLKRFLGPCGWKYENVYITKQFVRFDEKERHQQRPCVLP LNKKERKKYVIV
 PSLQLTPKEKTLGLFFLPVLTLYLMMWVLF AAVDYLLYRLISSMNKQFQSLPGLVHLKLRGELKILVSV
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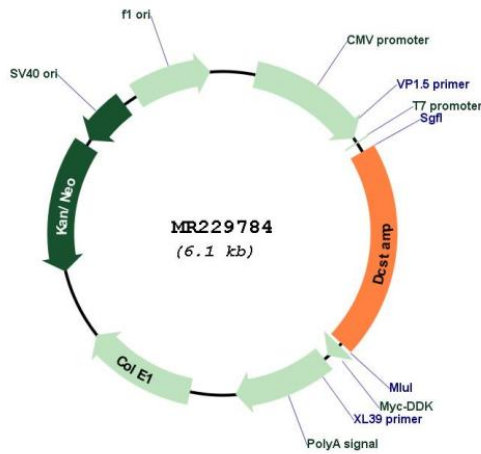
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289508

ORF Size:	1242 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_001289508.1 , NP_001276437.1
RefSeq Size:	1831 bp
RefSeq ORF:	1245 bp
Locus ID:	75766
UniProt ID:	Q7TNJ0
Cytogenetics:	15 B3.1
MW:	48.2 kDa
Gene Summary:	Probable cell surface receptor that plays several roles in cellular fusion, cell differentiation, bone and immune homeostasis. Plays a role in TNFSF11-mediated osteoclastogenesis. Cooperates with OCSTAMP in modulating cell-cell fusion in both osteoclasts and foreign body giant cells (FBGCs). Participates in osteoclast bone resorption. Involved in inducing the expression of tartrate-resistant acid phosphatase in osteoclast precursors. Plays a role in haematopoietic stem cell differentiation of bone marrow cells toward the myeloid lineage. Inhibits the development of neutrophilic granulocytes. Plays also a role in the regulation of dendritic cell (DC) antigen presentation activity by controlling phagocytic activity. Involved in the maintenance of immune self-tolerance and avoidance of autoimmune reactions. [UniProtKB/Swiss-Prot Function]