

Product datasheet for **MR230069**

Dcstamp (NM_001289506) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dcstamp (NM_001289506) 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



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ORF Nucleotide Sequence:

>MR230069 representing NM_001289506
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCTCTGGACCTTGGGCACCAGTATTTCTGAGGCTTTGGGGACTTATGTGTTCCACGAAGCC
 CTAGCTGGCTGGACTTCATCCAGCATTTGGGAGTCTGTTGCTTTGTGGCCTTCCTTCGGTGAGCCTCTT
 CTCTGCAGCCTTTTACTGGATCCTGCCACCCGTTGCCCTGCTCTTCTGTCTGGATGATCACCTGTGTT
 TTCCTATGCTGTTCCAAGCGCGCACGATGCTTCATTCTTCTGGCCGTTCTGTCTGTGGCCTCCGTGAAG
 GTAGGAACGCTTTGATTGCGGCTGGCACTGGGGTGTGATCTTTGGACATGTGGAAAATATTTTTATAA
 CTTCAGAGGTCTCTAGACAGCATGACTTGCAACCTAAGGGCAAAGAGCTTTTCAGTACATTTCCCACTT
 TTTAAACGGTAACTGAAGCCATCCAGTGGATTTACGGCCTTGCCACTCCGCTGAATCTATTTGATGACC
 TTGTTTCTTGAACCAGACTCTGGTGGTCTCTCTTTTAGTCCCAGCCATGCCCTGGAGGCTCATATGAA
 TGACACTAGAGGAGAAGTCTGGGAGTCTGCACCATATGGTGGTCACGACAGAGCTGTTGACTTCCGTG
 GGCAGAAAGTTGCTTGCCCTTGCCGGGCTTCTGCTCATCTAGTACGACTGGCCTCTTCTGAAGCGAT
 TCCTGGGCCCTTGTGGCTGGAAGTATGAGAATGTCTACATCACCAACAATTTGTTCCGTTTGTGAAAA
 GGAGAGGCACCAACAGCGGCCCTGTGTCCTCCCCTGAATAAGAAGGAAAGGAAGAAATATGTCATCGTC
 CCATCTTTCAGCTGACTCCTAAGGAGAAGAAAACCTTGGGCTGTTCTTCTTCTGTCCTGACCTATC
 TCTACATGTGGGTGCTGTTTGGCGCTGTGGACTATCTGCTGTATCGGCTCATCTCCTCCATGAACAAACA
 GTTCCAAGCTTGGCAGGCTGGAAGTTCACCTGAAACTACGTGGAGAGCAAGGAACCAAGGAGTCGTC
 CATGATTCTGCCTTAAATATATCTATGTTTGAACCGAGCTGCATTCTAAACCAGTCTCAGTGTGCTG
 AGACTTGGGTTCTCTCAGTATTATTCTGTTAACACTAATAACTAGGATTGTTGTCTTCTATGCTGAT
 GCAGCTTAAAATTCTCGTGTGAGTCTCTTCTACCCCAAAGTGGAGAGGGAGAGAATTGAATACCTGCAT
 GCGAAGCTCCTTGAGAAACGATCAAAGCAGCCATTGAGAGAGGCTGACGGGAAACCAGCCTGTACTTTA
 AAAAGATTCAATTTCTGGTTTCCAGTCTGAAAATGATTAGGAAGAAGCAGACAATCCCTGCAATGAAGA
 TGATCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230069 representing NM_001289506
 Red=Cloning site Green=Tags(s)

MRLWTLGTSIFLRLWGTYVFPSPSWLDFIQHLGVCCFVAFLSVSLFSAAFYWILPPVALLSSVWMITCV
 FLCCSKRARCIFILLAVLSCGLREGRNALIAAGTGVIIFGHVENIFYNFRGLLDMSMTCNLRAKSFVHFPL
 LKRYTEAIQWIYGLATPLNLFDDLVSWNQTLVVSLFSPSHALEAHMNDTRGEVLGVLHMHMVVTELLTSV
 GQKLLALAGLLLILVSTGLFLKRFLGPCGWKYENVYITKQFVRFDEKERHQRPCVPLNKKERKKYVIV
 PSLQLTPKEKKTLLGFLFPLVLYLMMVLFVAVDYLLYRLISSMNKQFQSLPGLLEVHLKLRGEQGTQGVV
 HDSAFNISMFEPCIPKPRLSVSETWVPLSIILLTLIILGLLSSMLMQLKILVSVSFYPKVERERIEYLH
 AKLLEKRSKPLREADGKPSLYFKKIHFVFPVLKMRKKQTIPANEDDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

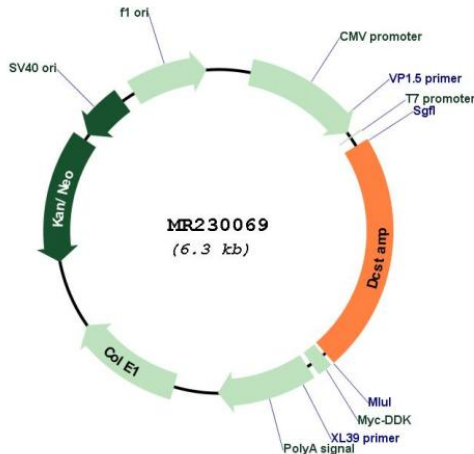
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001289506

ORF Size:

1407 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:	<u>NM_001289506.1, NP_001276435.1</u>
RefSeq Size:	1996 bp
RefSeq ORF:	1410 bp
Locus ID:	75766
Cytogenetics:	15 B3.1
MW:	54.2 kDa
Gene Summary:	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p>