

Product datasheet for **MR224544**

Dcstamp (NM_029422) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dcstamp (NM_029422) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dcstamp
Synonyms:	4833414I07Rik; DC-STAMP; FIND; mDC-STAMP; Tm7sf4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224544 representing NM_029422
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCTCTGGACCTTGGCACCAAGTATTTCTGAGGCTTTGGGGACTTATGTGTTCCACGAAGCC
 CTAGCTGGCTGGACTTCATCCAGCATTTGGGAGCTGTTGCTTTGTGGCCTTCCTTCGGTGAGCCTCTT
 CTCTGCAGCCTTTTACTGGATCCTGCCACCCGTTGCCCTGCTCTTCTGTCTGGATGATCACCTGTGTT
 TTCCTATGCTGTTCCAAGCGCGCACGATGCTTCATTCTTCTGGCCGTTCTGTCTGTGGCCTCCGTGAAG
 GTAGGAACGCTTTGATTGCGGCTGGCACTGGGGTGTGATCTTTGGACATGTGAAAAATATTTTTATAA
 CTTCAGAGGTCTCCTAGACAGCATGACTTGCAACCTAAGGGCAAAGAGCTTTTCAGTACATTTCCCACTT
 TAAAAACGGTAACTGAAGCCATCCAGTGGATTTACGGCCTTGCCACTCCGCTGAATCTATTTGATGACC
 TTGTTTCTTGAACCAGACTCTGGTGGTCTCTCTTTTAGTCCCAGCCATGCCCTGGAGGCTCATATGAA
 TGACACTAGAGGAGAAGTCTGGGAGTCTGCACCATATGGTGGTCACGACAGAGCTGTTGACTTCCGTG
 GCCAGAAAGTTGCTTGCCCTTGCCGGGCTTCTGCTCATCTAGTACGACTGGCCTTCTCTGAAGCGAT
 TCCTGGGCCCTTGTGGCTGGAAGTATGAGAATGTCTACATCACCAACAATTTGTTTCGGTTTGATGAAAA
 GGAGAGGCACCAACAGCGGCCCTGTGTCCTCCCGCTGAATAAGAAGGAAAGGAAGAAATATGTCATCGTC
 CCATCTTTCAGCTGACTCCTAAGGAGAAGAAAACCTTGGGCTGTTCTTCTTCTGCTGACCTATC
 TCTACATGTGGGTGCTGTTTGGCGCTGTGGACTATCTGCTGTATCGGCTCATCTCTCCATGAACAAACA
 GTTCCAAGCTTGGCAGGGCTGGAAGTTCACTTGAACACTCGTGGAGAGAAGCAAGGAACCAAGGATC
 GTCCATGATTCTGCCTTTAATATATCTATGTTGAACCGAGCTGCATTCTAAACCACGCTCAGTGTGT
 CTGAGACTTGGGTTCTCTCAGTATTATCTGTTAACACTAATAACTAGGATTGTTGCTTCTATGCT
 GATGCAGCTTAAATTCGTGTGAGTCTCCTTCTACCCAAAGTGGAGAGGGAGAGAATTGAATCACTG
 CATGCGAAGCTCCTTGAGAAACGATCAAAGCAGCCATTGAGAGAGGCTGACGGGAAACCGAGCCTGTACT
 TAAAAAGATTCAATTTCTGGTTTCCAGTCTGAAAATGATTAGGAAGAAGCAGACAATCCCTGCAAATGA
 AGATGATCTA

ACGGTACGGCGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224544 representing NM_029422
 Red=Cloning site Green=Tags(s)

MRLWTLGTSIFLRLWGYVFPSPSWLDFIQHLGVCCFVAFLSVSLFSAAFYWILPPVALLSSVWMITCV
 FLCCSKRARCIFILLAVLSCGLREGRNALIAAGTGVIIFGHVENIFYNFRGLLDSMTCNLRAKSFVHFPL
 LKRYTEAIQWIYGLATPLNLFDDLVSWNQTLVVSLSFSPSHALEAHMNDTRGEVLGVLHMHMVVTELLTSV
 GQKLLALAGLLLILVSTGLFLKRFLGPCGWKYENVYITKQFVRFDEKERHQRPCVLPNKKERKKYVIV
 PSLQLTPKEKKTLLGLFFLPVLTLYLMMVLFVAVDYLLYRLISSMNKQFQSLPGLVHLKLRGEKQGTQGV
 VHDSAFNISMFEPSCIPKRLSVSETWVPLSIIILLTLIILGLLSSMLMQLKILVSVSFYPKVERERIEYL
 HAKLLEKRSKQPLREADGKPSLYFKKIHFWFVPLKMRKKQTIPANEDDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9017_b05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_029422

ORF Size: 1410 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

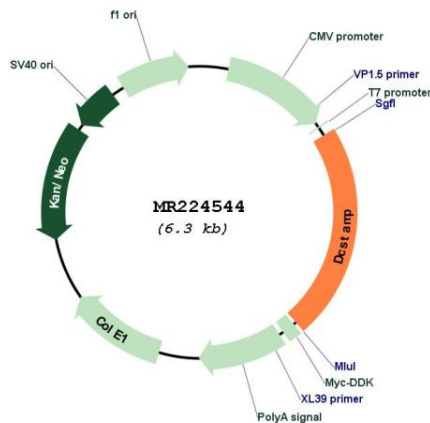
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_029422.4, NP_083698.1](#)
RefSeq Size: 1993 bp
RefSeq ORF: 1413 bp
Locus ID: 75766
UniProt ID: [Q7TNJ0](#)
Cytogenetics: 15 B3.1
MW: 54.3 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]

Product images:



Circular map for MR224544