

Product datasheet for **MR208270**

MIstd1 (BC055759) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIstd1 (BC055759) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MIstd1
Synonyms:	A230046P18, MGC67167
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR208270 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCATGATCGCAGCTTTCTACAGCAACAAGTCTATCCTCATCACAGGGGCCACAGGCTTCTGGGCA
 AGGTGCTCATGGAGAAGTTATTCGTACCAGCCCCACTTGAAAGTCATTACATCCTCGTGAGACCCAA
 GTCTGGACAGACACTGCAGGAAAGGGTTTTCCAGATCCTCAACAGTAAGCTGTTTGAGAAAGTCAAAGAA
 GTCTGTCCAAATGTGCATGAGAAGATCAGACCCATCTCCGACAGCCTCAACCAGCGTGACTTCGCCATCA
 GCAAGGAAGACGTGCAAGAATTCTGTCTGTACCAATATTATCTTCCACTGTGCAGCCACAGTGCCTT
 TGATGCACATCTGAGAGAAGCTGTGCAGCTGAACGTACGGCCACCCAGCAGCTCCTGCTAATGGCCAGC
 CAGATGCCAAAGCTGGAAGCCTTCATCCACATCTCCACTGCCTTTTCCAACCTGCAACCTGAGCCACATTG
 ATGAGGTCTATCCCATGCCCTGTGGAGCCAAGAAAGATCATTGACTCCATGGAGTGGTTAGATGACTC
 TATCATTGAAGAGATCACTCCTAAGCTGATTGGGGACCGCCCAATACCTACACCTACACCAAAGCCTTG
 GGAGAGATAGTAGTGACGCAAGAGAGCGGAAACCTGAATGTGGCCATTGTGAGGCCATCCATAGTGGGAG
 CAACCTGGCAGGAGCCTTTCCCGGGTTGGGTTGATAATCTAAATGGACCCAGCGGACTCATTATTGCGAC
 TGGGAAAGGATTTCTTCGGTCCATAAAGCGACTCCCATGGCAGTGGCAGATGTGATTCCAGTTGACACA
 GTTGTTAATCTCACCATAGCAGTAGGATGGTATACTGCAGTTCATAGGCCTAAATCAACATTAATCTACC
 ATTCCACATCTGGTAATCTCAATCCCTGTAAGTGGTATAAAATGGGATTACAGGTCTTGGCGACCATCGA
 AAAGATCCCATTTGAGAGTGCTTTCAGAAGGCCAAATGCTGACTTCACCACCAGCAATTTACCACCCAT
 TATTGGAACACCGTCAGCCACCGGGTCCCAGCCATCATCTATGACTTCTATCTGAGGCTTACTGGAAGGA
 AACCCAGAATGCTGAAGCTCATGAACCGGCTGCTAAAAACCATTTCCATGCTGGAGTATTTATCAACCA
 CAGTTGGGAATGGAGCACAAACAACACGGAGATGCTTCTGTGAGAGCTCAGTCCTGAAGACCAGAGAGTA
 TTCAACTTTGATGTGCGTCAGTTGAAGTGGCTCGAATACATTGAAAATTACGTTTTGGGGTTAAGAAGT
 ATCTACTAAAAGAGGATCTGGCCGGTATCCCCAAAGCAAAGCAACACCTAAGAAGGCTCCGGAACATTCA
 CTACCTCTTTAACTGCCCTGTTTCTTATCATCTGGCGCTCCTCATTGCAAGGTCTCAGATGGCTCGG
 AACGTCTGGTTCTTCATTGTAAGCTTCTGTTACAAGTTCATCTCTACTTTGGGCCTCCAGCACACTCA
 AGGTC

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208270 protein sequence
 Red=Cloning site Green=Tags(s)

MSMIAAFYSNKSILITGATGFLGKVLMEKLFRTSPHLKVIYILVRPKSGQTLQERVFQILNSKLFKVKKE
 VCPNVHEKIRPISADLNQRDFAISKEDVQELL SCTNII FHC AATVRFDAHLREAVQLNVTATQQLLLMAS
 QMPKLEAFIHISTAFSNCNL SHIDEVIYPCPVEPRKIIDSMEWLDDSIIEEITPKLIGDRPNTYTYTKAL
 GEIVVQQESGNLNVAIVRPSIVGATWQEPFPGWVDNLNGPSGLIATGKGLRSIKATPMAVADVIPVDT
 VVNLTIAVGWYTAVHRPKSTLIYHSTSGNLNPCNWKMLQVLATIEKIPFESA FRPNADFTTSNFTTH
 YWNTVSHRVP AIYDFYLR LTGRKPRMLKLMNRLLKTISMLEYFINHSWSTNNTEMLLSELSPEDQRV
 FNFDVRQLNWLEYIENYVLGVKKYLLKEDLAGIPKAKQHLRRLNIHYLFNTALFLIIWRLLIARSQMAR
 NVWFFIVSFCYKFISYFRASSTLKV

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC055759

ORF Size: 1545 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: [BC055759](#), [AAH55759](#)

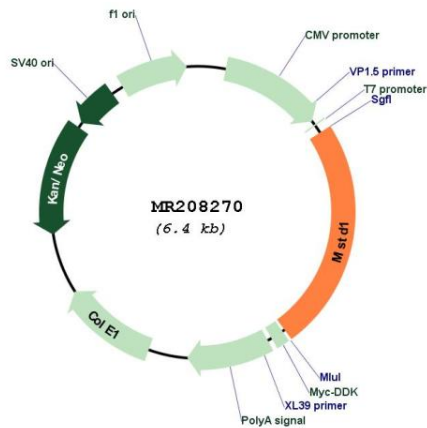
RefSeq Size: 2626 bp

RefSeq ORF: 1547 bp

Locus ID: 330450

Cytogenetics:	6 G3
MW:	59.2 kDa
Gene Summary:	Catalyzes the reduction of saturated but not unsaturated C16 or C18 fatty acyl-CoA to fatty alcohols. A lower activity can be observed with shorter fatty acyl-CoA substrates (PubMed:15220348). It may play a role in the production of ether lipids/plasmalogens and wax monoesters which synthesis requires fatty alcohols as substrates (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208270