

Product datasheet for **MG208270**

MIstd1 (BC055759) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIstd1 (BC055759) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MIstd1
Synonyms:	A230046P18, MGC67167
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208270 representing BC055759
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGTCCATGATCGCAGCTTTCTACAGCAACAAGTCTATCCTCATCACAGGGGCCACAGGCTTCCTGGGCA
 AGGTGCTCATGGAGAAGTTATTCGTACCAGCCCCACTTGAAAGTCATTACATCCTCGTGAGACCCAA
 GTCTGGACAGACACTGCAGGAAAGGGTTTTCCAGATCCTCAACAGTAAGCTGTTTGAGAAAGTCAAAGAA
 GTCTGTCCAAATGTGCATGAGAAGATCAGACCCATCTCCGACAGCCTCAACCAGCGTGACTTCGCCATCA
 GCAAGGAAGACGTGCAAGAACTTCTGTCTGTACCAATATTATCTTCCACTGTGCAGCCACAGTGCCTT
 TGATGCACATCTGAGAGAAGCTGTGCAGCTGAACGTACGGCCACCCAGCAGCTCCTGCTAATGGCCAGC
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 CTACCTCTTTAACTGCCCTGTTTCTTATCATCTGGCGCTCCTCATTGCAAGGTCTCAGATGGCTCGG
 AACGTCTGGTTCTTCATTGTAAGCTTCTGTTACAAGTTTCATCTCTACTTTGGGCCTCCAGCAGCTCA
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

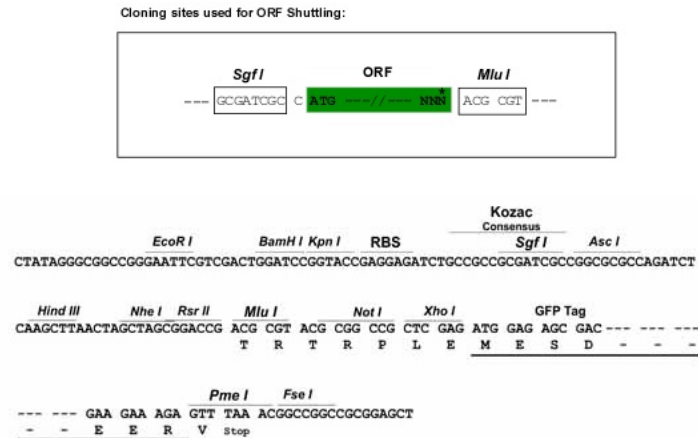
>MG208270 representing BC055759
 Red=Cloning site Green=Tags(s)

MSMIAAFYSNKSILITGATGFLGKVLMEKLFRTSPHLKVIYILVRPKSGQTLQERVFQILNSKLFKEVKE
 VCPNVHEKIRPISADLNQRDFAISKEDVQELL SCTNIIIFHCAATVRFDAHLREAVQLNVTATQQLLLMAS
 QMPKLEAFIHISTAFSNCNL SHIDEVIYPCPVEPRKIIDSMEWLDDSIIEEITPKLIGDRPNTYTYTKAL
 GEIVVQQESGNLNVAIVRPSIVGATWQEPFPGWVDNLNGPSGLIATGKGFRLSIKATPMAVADVIPVDT
 VVNLTIAGWYTAVHRPKSTLIYHSTSGNLNPNWYKMLQVLATIEKIPFESAFRRPNADFTTSNFTTH
 YWNTVSHRVPAAIYDFYLRLTGRKPRMLKLMNRLLKTISMLEYFINHSWEWSTNNTEMLLSELPEDQRV
 FNFDVRQLNWLEYIENYVLGVKKYLLKEDLAGIPKAKQHLRRLNIHYLFNTALFLIIWRLLIARSQMAR
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TRTRPLE – GFP Tag – V

Restriction Sites:

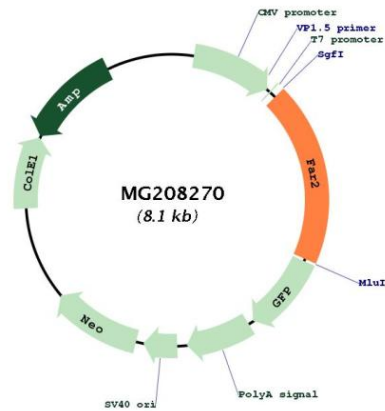
Sgfl-MluI

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
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 MG208270