

Product datasheet for **RR214569**

Mfsd8 (NM_001047910) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mfsd8 (NM_001047910) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mfsd8
Synonyms:	Ab2-276; RGD1310132
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR214569 representing NM_001047910
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAACACACACACACACGCACGCACGCACGCACACACGCACGCACGCATGCACACTCTAC
 CTCTTGAGATCTTCTGGCCTTCCCATCTCTGATGAAAAGTTTGAAGCCAGTGGCGCACGCCTGTAC
 TTACAGGCCGCTCGCGGACGCACACCTAAAGGGAGTTCGCCAAGGCTCTGGGCACCCAGCTCTTACGC
 TCTAGGAAGTGGACTTTCGCTTTCAGGCGCAGTTGCCGAGTGTTCGACAGCTCCGGCCAGGAAGGAGCTT
 CGGGCGCAGAGTGGGCAGCGCGCCGCTAGTGAGTGTGTCTTATGGCGAACCTGGGAAGCGAGGCCG
 AGAGGGAGCCCTCTGGGCACTGGCTCGCCCGAAGCAGATTGATCAGACAGCTGATGCAAGTTTTTTG
 GGCTGGTTATTGCTTCATATAGTCTTGCCAAATGGTAGCTTCCACTCTATTTGGCTTATGGTCTAATT
 ATAGGCCAAGAAAAGAACCTCTTATCGTCTCCATCTTTATTTTCGGTGGCAGCCAATTGCTGTACGCATA
 TGTCATGTGCCAGCTGCTCATAATAAACTACATGTTGATTGCTCGTGGATTGGTCGGATTCCGGAGCA
 GGAAATGTAGCTGTTGTCCGATCATACATTGCCGGTGTACTTCCCTTCAGGAAAAGAACGGGTGCCATGG
 CTAATACGAGCAGCATGCCAAGCCCTGGGCTTTATTTCTGGGTCCAGGTTCCACAGCAACCAGTGGTGGCT
 GTACCCCTGGATTTCTATGGCTATGTGTGTGACTTTGAAGCTGTGTCCAGGAATGGTCTGTACTCAGTACA
 CGACTTAATTGCACAGTTCAAGAAAATGCAGATGAACTTCAGATTCCTGAAGGAAGTATTGATCAAGTTG
 CTGTTGTGGCCACCAATATTGTGTTTTTTGGTGGTTTTGTTTATCTTTGCTGTTTATGAAACAATCCCTCAC
 TCCATTAACGATGGACATGTACGCCTGGACCCAGGAGCAGGCTGTGCTCTATAATGGAATAATCCTTGT
 GCTTTTGGAGTTGAGGCAGTCTTGTTTTTCATGGGTGTTAAATTAATTTCCAAAACTCAACCCCTAATA
 CTACATTTGGGAAATTATTATTGATCTTTGGAATTTCTCAAGAGAAGATCACAGTGAACAGCCAACCTGG
 ATGCCCAATTGAACAGGCCTGGTGCCTATACACCCAGTATTCACTGGCCAGTTCCTGACAGCTGCT
 GTGCTAGTTGGAATAGGCTATCCAGCCTGCAGTGTCTATACATTATACTCAAAAGTTCTAGGAC
 CCAAACCTCAGGGTATATACATGGGCTGGTTAACCCTTCTGGAAGTGCAGCACGGATTCTTGGGCTGT
 GTTCATCAGCCATGTGTACACTTACTTGGGCCACGATGGGCAGTCAGCCTTGTGTGGAATAGTAGCC
 TTCACCATCTTGCTAATAGGAGCTGTTTACAAAAGACTCGTTGCCTTTTCTGTCAGATATGGGAGGATCC
 AGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214569 representing NM_001047910
 Red=Cloning site Green=Tags(s)

MKHTHTRTHARTHATHARMHTLPLEIFWSPSSDEKFEASGARPVYRPLADAHKGVRRQSGHPSSSR
 SRNWTFAAGVAECFDSSGQEGASGARVGSAPPSECCHYGEPGKRGREGAPPGHWLARKQIDQTADASFL
 GWVIASYSLGQMVASPLFGLWSNYRPRKEPLIVSIFISVAANCLYAYVHVPAAHNKYYMLIARGLVGFGA
 GNVAVVRSYIAGATSLQERTGAMANTSTCQALGFILGPGSYSNQCWLYPWISAMCVTLKLCQEWSVLST
 RLNCTVQENADELQIPEGSIDQVAVVATNIVFFVFLIFAVYETILTPLTMDMYAWTQEAVLYNGIILV
 AFGVEAVLVFMGVKLLSKNSTPNTTFGEIIDLWNSPREDHSEQPTGCPTEQAWCLYTPVIHLAQFLTAA
 VLVGIGYPACSVMSYTLYSKVLGPKPQGIYMGWLTTSGSAARILGPVFIHVYTYLGPRAWVSLVCGIVA
 FTILLIGAVYKRLVAFSVRYGRIQE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

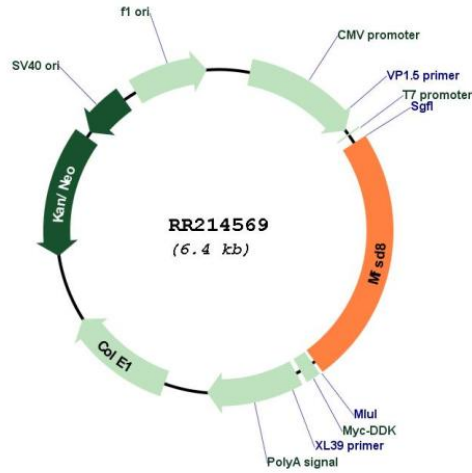
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001047910
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:	<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_001047910.1 , NP_001041375.1
RefSeq Size:	1594 bp
RefSeq ORF:	1548 bp
Locus ID:	361939
Cytogenetics:	2q25
MW:	56.3 kDa