

Product datasheet for **MR231306**

Sulf2 (NM_001252578) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sulf2 (NM_001252578) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sulf2
Synonyms:	2010004N24Rik; AU020235; mKIAA1247; MSulf-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR231306 representing NM_001252578
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACCCCCTGGCCTGCCACTATGGCTGCTGCCACCCTCTCCTCTCCCTGCTGGCTGGCAGCTCGG
 CCTTCCTCTCCATCCCCGCCTGAAGGGACGCTTCCAGAGGGACCGCAGGAACATCCGGCCAACATCAT
 CTTGGTGTTACGGATGACCAGGATGTGGAGCTGGGCTCCATGCAAGTGATGAACAAGACAGGCGTATC
 ATGGAGCAGGGCGGGGCGCACTTCATCAATGCCTTCGTGACTACACCAATGTGCTGTCCGCTCTCGCTCCT
 CCATTCTACCGGCAAGTACGTCCACAACCACAACACCTACACCAACAATGAGAATTGTTCTCGCCCTC
 CTGGCAGGCCAGCAGAGAGCCGACCTTCGCCGTGTATCTCAACAGCACAGGCTACCGGACAGCTTTC
 TTCGAAAATACCTCAATGAGTACAACGGCTCATACGTGCCGCCCGGCTGGAAGGAGTGGTTCGGCTAC
 TTAAGAACTCCCGCTTTATAACTACACACTCTGCCGGAATGGGTGAAGGAGAAACATGGCTCAGACTA
 CTCACCGATTACCTCACGGATTCATACCAATGACAGTGTGAGCTTCTCCGAACATCCAAGAAGATG
 TACCCACACAGGCCCGTCTCATGGTATCAGCCACGCGGCTCCCATGGCCCGAGGACTCAGCACCCC
 AGTACTCACGGCTCTTCCCAATGCGTCCCAGCACATCACACCGAGTTACAACATGACCCAACCCAGA
 CAAGCATTGGATCATGCGCTACACGGGACCCATGAAGCCATTACATGGAATTCACCAACATGCTACAA
 CGAAAACGCCTACAGACCCTCATGTCTGTGGATGACTCCATGGAGACGATCTATGACATGCTGGTGGAGA
 CGGGGGAGCTGGACAACACGTACATCCTGTACACCGCCGACCACGGCTACCACATTGGCCAGTTTGGGCT
 GGTGAAGGGCAAGTCTATGCCGTATGAATTCGACATCAGAGTCCCGTTCTACGTGAGGGGCCCAACGTG
 GAAGCTGGCTCTCTGAACCCCAACATTGTCTCAACATTGACCTGGCCCCACCATACTGGATATCGTG
 GACTGGACATCCCTGCAGACATGGAGGGAAGTCTATTCTCAAACACTGGACTCAGAGCGGCCAGTGA
 CCGGTTCCACTTGAAAAAGAAGCTGAGGGTCTGGCGAGACTCCTTCTGTTGGAGAGAGGCAAACTGCTC
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 GAGGGGACTACAACTGGCCTGGCTGGACGCCGTAAGCTCTTTAAGAAAAAGTAAAGACCAGCTATGC
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 GTGCCCTACGCCCCAACCTTAGCAAGCCGCACTGGCCAGGGGCCCTGAAGACCAAGATGACAAGGATG
 GTGGCAGTTTCAGTGGTACTGGTGGCCTTCCAGATTATTCTGCCCCAATCCCATCAAAGTGACCCATCG
 GTGCTACATCCTTGAGAATGACACAGTCCAGTGGACTTGGACCTGTACAAGTCCCTGCAGGCTTGGAAA
 GACCACAAGCTGCACATCGACCATGAGATCGAAACCCTGCAGAACAAAATTAAGAACCTTCGAGAAGTCA
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 GGAGGAAGCTATGAACAAACAGGCAGTTTCAGCGTCGAAAATGGCCAGAAATGAAGAGACCTTCTTCCA
 AATCACTGGGACAGCTATGGGAAGTTGGGAAGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231306 representing NM_001252578
 Red=Cloning site Green=Tags(s)

MAPPGLPLWLLSTALLSLLAGSSAFLSHPRLKGRFQRDRRNIRPNIILVLTDDQDVELGSMQVMNKTRRI
 MEQGAHFINAFVTTMCCPSRSSILTGKYVHNHNTYTNNENCSSPSWQAQHESTRFAVYLNSTGYRTAF
 FGKYLNEYNGSYVPPGWKEWVGLLKNSRFNYTLCRNGVKEKHGSDYSTDYLTDLITNDSVSFFRTSKKM
 YPHRPVLMVISHAAPHGPEDSAPQYSRLFPNASQHITPSYNYAPNPKHWIMRYTGPMKPIHMEFTNMLQ
 RKRLQTLMSVDDSMETIYDMLVETGELDNTYILYTADHGYHIGQFGLVKGKSMPEYFDIRVFPFYVRGPNV
 EAGSLNPHIVLNIIDLAPTILDIAGLDIPADM DGKSILKLLD SERPVNRFHLK KKL RVWRDSFLVERGKLL
 HKREGDKVNAQEENFLPKYQRVKDLQRAEYQTACEQLGQKWQCVEDASGTLKHLKCKGPMRFGGGGSR
 ALSNLVPKYDQGSSEACSCDSGGGGDYKLAGRRKLFKKKYKTSYARNRSIRSVAIEVDGEIYHVGLDT
 VPQPRNLSKPHWPGAPEDQDDKDGGSFSGTGGLPDYSAPNPIKVTHRCYILENDTVQCDLKYSLQAWK
 DHKLHIDHEIETLQNKIKNLREVRGHLKKRPEECDCHRISYHSQHKGRLLKHKGSSLHPFRKGLQEKDKV
 WLLREQRKKKLRKLLKRLQNNDTCSMPGLTCFTHDNHHWQTAPLWTLGPFCACTSANNNTYWCLRTINE
 THNFLFCEFATGFI EYFDLSTDPYQLMNAVNTLDRDVLNQLHVQLMELRSCKGYKQCNPRTRNMDLGLRD
 GGSYEYRQFQRRKWPEMKRPSSKSLGQLWEGWEG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

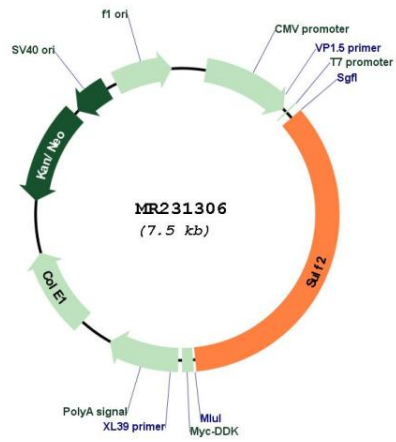
SgfI-MluI

Cloning Scheme:



ACCN:	NM_001252578
ORF Size:	2625 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_001252578.1 , NP_001239507.1
RefSeq Size:	3948 bp
RefSeq ORF:	2628 bp
Locus ID:	72043
UniProt ID:	Q8CFG0
Cytogenetics:	2 H3
MW:	100.5 kDa
Gene Summary:	Exhibits arylsulfatase activity and highly specific endoglucosamine-6-sulfatase activity. It can remove sulfate from the C-6 position of glucosamine within specific subregions of intact heparin (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR231306