

## Product datasheet for **MG226562**

### Sulf2 (NM\_028072) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sulf2 (NM_028072) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sulf2
Synonyms:	2010004N24Rik; AU020235; mKIAA1247; MSulf-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG226562 representing NM\_028072  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCACCCCCTGGCCTGCCACTATGGCTGCTGCCACCCTCTCCTCTCCCTGCTGGCTGGCAGCTCGG  
 CCTTCTCTCCATCCCCGCTGAAGGGACGCTTCCAGAGGGACCGCAGGAACATCCGGCCAACATCAT  
 CTTGGTGTTACGGATGACCAGGATGTGGAGCTGGGCTCCATGCAAGTGATGAACAAGACAAGGCGTATC  
 ATGGAGCAGGGCGGGGCGCACTTCATCAATGCCTTCGTGACTACACCAATGTGCTGTCCGCTCTCGCTCT  
 CCATTCTACCGGCAAGTACGTCCACAACCACAACACCTACACCAACAATGAGAATTGTTCTCGCCCTC  
 CTGGCAGGCCAGCAGAGAGCCGACCTTCGCCGTGTATCTCAACAGCACAGGCTACGGGACAGCTTTC  
 TTCGAAAATACCTCAATGAGTACAACGGCTCATACGTGCCGCCCGGCTGGAAGGAGTGGTTCGGCTAC  
 TTAAGAACTCCCGCTTTATAACTACACACTCTGCCGGAATGGGTGAAGGAGAAACATGGCTCGGACTA  
 CTCACCGATTACCTCACGGATCTCATACCAATGACAGTGTGAGCTTCTCCGAACATCCAAGAAGATG  
 TACCCACACAGGCCCGTCTCATGGTATCAGCCACGCGGCTCCCATGGCCCGAGGACTCAGCACCCC  
 AGTACTCACGGCTCTTCCCAATGCGTCCCAGCACATCACACCGAGTTACAACATGACCCCAACCCAGA  
 CAAGCATTGGATCATGCGCTACACGGGACCCATGAAGCCATTACATGGAATTCACCAACATGCTACAA  
 CGAAAACGCTACAGACCCTCATGTCTGTGGATGACTCCATGGAGACGATCTATGACATGCTGGTGGAGA  
 CGGGGGAGCTGGACAACACGTACATCCTGTACACCGCCGACCACGGCTACCACATTGGCCAGTTTGGGCT  
 GGTGAAGGGCAAGTCTATGCCGTATGAATTCGACATCAGAGTCCCGTTCTACGTGAGGGGCCCAACGTG  
 GAAGCTGGCTCTCTGAACCCCAACATTGTCTCAACATTGACCTGGCCCCCACCATACTGGATATCGTG  
 GACTGGACATCCCTGCAGACATGGAGGGAAGTCTATTCTCAAACACTGGACTCAGAGCGGCCACTGTA  
 CCGGTTCCACTTGAAAAAGAAGCTGAGGGTCTGGCGAGACTCCTTCTGTTGGAGAGAGGCAAACTGCTC  
 CACAAGAGGGAGGGTGACAAAGTGAATGCCAGGAGGAGAACTTCTGCCCAAGTACCAGCGCTGAAGG  
 ACCTGTGTGAGCGAGCTGAGTACCAGACAGCATGCGAACAGCTGGGGCAGAAAGTGGCAGTGTGTGGAGGA  
 CGCTTCTGGGACGCTGAAGCTGCACAAATGTAAGGCCCATGCGGTTTGGTGGCGGCGGTGGCAGCAGA  
 GCCCTCTCAACCTGGTGCCTAAGTATGACGGCCAGAGCAGCGAGGCTGCAGCTGTGACAGTGGCGGTG  
 GAGGGGACTACAACTGGCCTGGCTGGACGCCGTAAGCTCTTTAAGAAAAAGTAAAGACCAGCTATGC  
 CCGGAACCGCTCCATCCGTTCCGTGGCCATCGAGGTGGACGGTGAAGTATACCACGTAGGCTTGGATACT  
 GTACCTCAGCCCCGCAACCTTAGCAAGCCGCACTGGCCAGGGGCCCTGAAGACCAAGATGACAAGGATG  
 GTGGCAGTTTCAGTGGTACTGGTGGCCTTCCAGATTATCTGCCCCCAATCCCATCAAAGTGACCCATCG  
 GTGCTACATCCTTGAGAATGACACAGTCCAGTGGACTTGGACCTGTACAAGTCCCTGCAGGCTTGGAAA  
 GACCACAAGCTGCACATCGACCATGAGATCGAAACCTGCAGAACAAAATTAAGAACCTTCGAGAAGTCA  
 GGGGTACCTGAAGAAGAAGCGACCCGGAAGAATGTGACTGCCATAAAATCAGTTACCACAGCCAACACAA  
 AGGCCGTCTCAAGCACAAAGGCTCCAGCCTGCACCCTTTCAGGAAGGGTCTGCAGGAGAAGGACAAGGTG  
 TGGCTGCTGCGGGAGCAGAAACGCAAGAAGAACTGCGCAAGCTGCTCAAACGGCTGCAGAACACGATA  
 CGTGCAGCATGCCCGCCTCACGTGCTTACCCACGACAACCACCACTGGCAGACGGCGCCACTCTGGAC  
 GCTGGGGCCGTTCTGCGCCTGCACCAGCGCCAACAACAACACGTACTGGTGTGTTGAGGACCATAAATGAG  
 ACCCACAACCTTCTTCTGCGAATTTGCAACCGGCTTCATAGAATACTTTGACCTCAGTACAGACCCCT  
 ACCAGCTGATGAACGCGGTGAACACACTGGACAGGGACGTCTTAACCAACTGCACGTGCAGCTCATGGA  
 GCTAAGGAGCTGTAAAGGCTACAAGCAGTGCAACCCCGGACCCGCAACATGGACCTGGGCTTAGAGAC  
 GGAGGAAGCTATGAACAAACAGGCAGTTTCAGCGTCGAAAATGGCCAGAAATGAAGAGACCTTCTTCCA  
 AATCACTGGGACAGCTATGGGAAGTTGGGAAGGC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG226562 representing NM\_028072  
 Red=Cloning site Green=Tags(s)

MAPPGLPLWLLSTALLSLLAGSSAFLSHPRLKGRFQRDRRNIRPNIILVLTDDQDVELGSMQVMNKTRRI  
 MEQGAHFINAFVTTMCCPSRSSILTGKYVHNHNTYNNENCSSPSWQAQHESTRFAVYLNSTGYRTAF  
 FGKYLNEYNGSYVPPGWKEWVGLLKNSRFNYTLCRNGVKEKHGSDYSTDYLDLITNDSVSFFRTSKKM  
 YPHRPVLMVISHAAPHGPEDSAPQYSRLFPNASQHITPSYNYAPNPKHWIMRYTGPMKPIHMEFTNMLQ  
 RKRLQTLMSVDDSMETIYDMLVETGELDNTYILYTADHGYHIGQFGLVKGKSMPEYFDIRVFPYVYRGPV  
 EAGSLNPHIVLNIIDLAPTILDIAGLDIPADM DGKSILKLLD SERPVNRFHLK KKL RVWRDSFLVERGKLL  
 HKREGDKVNAQEENFLPKYQRVKDLQRAEYQTACEQLGQKWQCVEDASGTLKHLKCKGPMRFGGGGSR  
 ALSNLVPKYDGGSEACSCDSGGGGDYKLGLAGRRKLFKKKYKTSYARNRSIRSVAIEVDGEIYHVGLDT  
 VPQPRNL SKPHWPGAPEDQDDKDGGSFSGTGGLPDYSAPNPIKVTHRCYILENDTVQCDLDLYKSLQAWK  
 DHKHLIDHEIETLQNKIKNLREVRGHLKKRPEECDCHKISYHSQHKGRLLKHKGSSLHPFRKGLQEKDKV  
 WLLREQRKKKLRKLLKRLQNNDTCSMPGLTCFTHDNHHWQTAPLWTLGPFCACTSANNNTYWCLRTINE  
 THNFLFCFATGFI EYFDLSTDPYQLMNAVNTLDRDVLNQLHVQLMELRSCKGYKQCNPRTRNMDLGLRD  
 GGSYEYRQFQRRKWPEMKRPSSKSLGQLWEGWEG

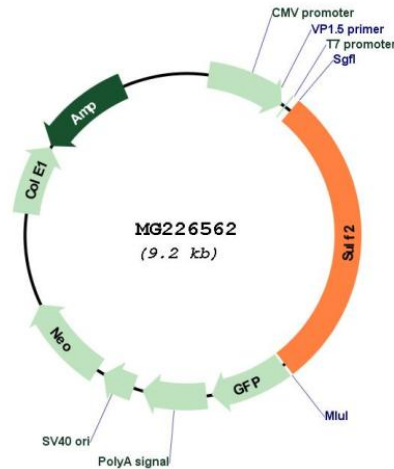
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_028072

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:

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\\_028072.4](#), [NP\\_082348.2](#)

RefSeq Size: 3790 bp

RefSeq ORF: 2628 bp

Locus ID: 72043

UniProt ID: [Q8CFG0](#)

**Cytogenetics:** 2 H3

**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]