

## Product datasheet for **MR208034**

### **Cyp2s1 (NM\_028775) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cyp2s1 (NM_028775) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp2s1
Synonyms:	1200011C15Rik; AU041727; C79779
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR208034 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGAGGCAGCCAGCACCTGGGCGCTGCTGCTGGCCCTGCTGCTGCTGCTGCTGCTGCTGTCTCTGACGC  
 TATTACAGACCCCGGCCGAGGCTACCTACCCCGGGGCCACGCGCTGCCGTTGCTGGGAACCTCCT  
 GCAGCTGCGTCCCGGGGCTCTGTACTCGGGCTTTTTCGGCTAAGTAAGAAGATGGGCCTGTGTTACAG  
 GTATACCTGGGCCCTGGCGCCGCTGGTGGTCTGGTTGGACATGATGCTGTAAGAGAAGCCTTGGGAG  
 GTCAGGCTGAGGAATTCAGCGGGCTGGAACATTGGCAACGCTGGACAAGACCTTTGATGGTCACGGAGT  
 TTTCTTTGCCAATGGGAGCGGTGGAACAGCTGAGGAAATTCACCCTGCTCGCTCTACGGGACCTGGGC  
 ATGGGCAAGCGAGAAGGCGAGGAGCTGATCCAGGCGGAGTGCAGAGTCTGGTGGAGGCTTCCAGAAGA  
 CAGAAGGACGTCCATTCAACCTTCCATGCTGCTGGCCAGGCCACCTCTAATGTCGCTGTTCCCTTGT  
 CTTTGGCATCCGTTTGCCTATGACGATAAAGAGTTCCAGGCTGTGATCCAGGCAGCAAGTGGTACCTTG  
 TTAGGGATCAGCTCTCCATGGGGCCAGGCTACGAGATGTTCTCCTGGCTACTGCAGCCCTGCCAGGCC  
 CCCACACACAGCTCCAGCACCACTTGGGCACCCTGGCTGCCTTCACTATCCAGCAGGTACAGAAACACCA  
 GGGACGCTTCAAACCTCAGGTCTGCACGTGATGTCGTTGACGCCTTCTGCTAAAGATGGCACAGGAG  
 AAACAAGACCCAGGTACAGAATTCACCGAGAAGAACTTGTGATGACGGTCACATACCTGCTGTTTGCTG  
 GGACCATGACCATCGGTGCCACCATCCGCTATGCCCTCTGCTCTGCTGAGATACCCTCAAGTCCAGCA  
 GCGCGTCCGGGAGGAGCTCATACAGGAGCTGGTCTGGCAGGGCTCCAAGTCTCAGCGATCGAGTTCGC  
 CTCCTTACACGGATGCCGTTTACACGAGGCACAGCGGCTCCTGGCACTGGTACCCATGGGCATGCCCC  
 ACACCATCAGGAGCACTTGTCTCGAGGGTACACTCTGCCAAGGGCACTGAGGTCTCCCTCTGAT  
 TGGCTCCATACTGCATGACCCTGCGGTTTTCCAGAACCAGGAGAGTCCATCCAGGCGGCTTCCCTGGAC  
 GAAGATGGTCCGTTGAGAAAACGAAAGCCTTCTGCCCTACTCCTTAGGTAAGCGAGTCTGCCTGGGAG  
 AAGGCTGGCTCGGGCGGAGTTGTGGCTTTTCTCACTTCCATCTTGCAAGCCTTCTCCCTGGAGACCC  
 GTGCCCGCGGTGACCTGAGCCTGAAGCCAGCCATCAGTGGACTTTTCAACATCCCCCGGACTTCCAG  
 CTGCGGGTCTGGCCACTGGCGACCAGTCCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

>MR208034 protein sequence  
 Red=Cloning site Green=Tags(s)

MEAASTWALLLALLLLLLLSTLFRTPARGYLPPGPTPLLLGNLLQLRPGALYSGLLRLSKKYGPVFT  
 VYLGWRRVVVLVGHDAVREALGGQAEFSGRGLATLDKTFDGHGVFFANGERWQLRKFTLLALRDLG  
 MGKREGEELIQAEVQSLVEAFQKTEGRPFNPSMLLAQATSNVVC SLVFGIRL PYDDKEFQAVIQAA SGTL  
 LGTSSPWQAYEMF SWLLQPLPGPHTQLQHHLGTLAAFTIQVQKHQGRFQTS GPARDVVDAFLKMAQE  
 KQDPGTEFTEKNLLMTVTYLLFAGTMTIGATIRYALLLLRYPVQVQVRREELIQELGPRAPSLSDRVR  
 LPYTDAVLHEAQRLLALVPMGMPHTITRTTCFRGYTLPGTEVFPLIGSILHDPVAVFQNPGEFHPGRFLD  
 EDGRLRKHEAFLPYSLGKRVCLGEGLARAELWFFTSILQAFSLETPCPPGDL SLKPAISGLFNIPDFQ  
 LRWPTGDQSR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

## Restriction Sites:

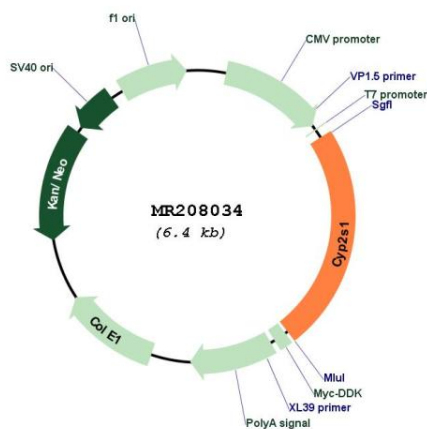
Sgfl-Mlul



**MW:** 55.6 kDa

**Gene Summary:** A cytochrome P450 monooxygenase involved in the metabolism of retinoids and eicosanoids. In epidermis, may contribute to the oxidative metabolism of all-trans-retinoic acid. For this activity, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (NADPH--hemoprotein reductase). Additionally, displays peroxidase and isomerase activities toward various oxygenated eicosanoids such as prostaglandin H2 (PGH2) and hydroperoxyeicosatetraenoates (HPETEs). Independently of cytochrome P450 reductase, NADPH, and O2, catalyzes the breakdown of PGH2 to hydroxyheptadecatrienoic acid (HHT) and malondialdehyde (MDA), which is known to act as a mediator of DNA damage. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208034