

## Product datasheet for TP508034

### Cyp2s1 (NM\_028775) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse cytochrome P450, family 2, subfamily s, polypeptide 1 (Cyp2s1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR208034 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MEAASTWALLLALLLLLLLSLTLFRTTPARGYLPPGPTPLPLLGNNLLQLRPGALYSGLLRSLKKYGPVFT  
VYLGPWRRVVLVGHDAVREALGGQAEFSGRGTLATLDKTFDGHGVFFANGERWKQLRKFTLLALRDLG  
MGKREGEELIQAEVQSLVEAFQKTEGRPFNPSMLLAQATSNVVCSLVFGIRLPYDDKEFQAVIQAAASGTL  
LGISSPWGQAYEMFSWLLQPLPGPHTQLQHHLGTLAAFTIQVQKHQGRFQTSGPARDVDAFLLKMAQE  
KQDPGTEFTEKNLLMTVTYLLFAGTMTIGATIRYALLLLRYPQVQQRVREELIQELGPGRAPSLSDRVR  
LPYTDVAVLHEAQRLLALVPMGMPHTITRTTCFRGYTLPKGTEVFPLIGSILHDPVAFQNPGEFHPGRFLD  
EDGRLRKHEAFLPYSLGKRVCLGEGELARAELWLFFTSILQAFSLETPCPPGDLSLKPASGLFNIPPDFQ  
LRVWPTGDQSR

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-MYC/DDK
Predicted MW:	55.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_083051</a></u>



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Locus ID: 74134

UniProt ID: [Q9DBX6](#)

RefSeq Size: 2621

Cytogenetics: 7 A3

RefSeq ORF: 1506

Synonyms: 1200011C15Rik; AU041727; C79779

**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]