

## Product datasheet for **MR208153**

### **Cyp7b1 (NM\_007825) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cyp7b1 (NM_007825) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp7b1
Synonyms:	AW261589; D3Ertd552e; hct-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208153 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACGGGAGCCACGACCCTAGATGCCGCCTCGCCAGGGCCTCTCGCCCTCTAGGCCTTCTTTTGCCG  
 CCACCTTACTGCTCTCGGCCCTGTTCTCTCACCCGGCGCACCCAGGCGCCCTCGTGAACCACTTGTAT  
 AAAAGGTTGGCTTCTTATCTTGGCATGGCCCTGAAATCTTTAAGGATCCGTTAACTTTCTTGAAAAT  
 CTTCAAAGGCAACATGGTGACACTTTCACTGTCTTCTTGTGGGGAAGTATATAACATTTGTTCTGAACC  
 CTTTCCAGTACCAGTATGTAACGAAAAACCAAAACAATTAAGCTTTCAGAAGTTCAGCAGCCGATTATC  
 AGCGAAAGCCTTCTGTAAAGAAGCTGTTACTGATGACGACCTTAATGAAGACGTTACACAGAGCCTAT  
 CTACTTCTACAAGCAAACCTTTGGATGCTTCTTGAAACTATGATCCAAGAAGTAAAAGAATTATTTG  
 AGTCCCAACTGCTAAAAATCACAGATTGGAACACAGAAAGAATATTTGCATTCTGTGGCTCACTGGTATT  
 TGAGATCACATTTGCGACTCTATATGAAAAATCTTGTGCTGGAACAAGAAACAAATTATCAGTGAGCTA  
 AGGGATGATTTTTTAAATTTGATGACATGTTCCCATACTTAGTATCTGCATACCTATTAGCTTCTAA  
 GAAATGAAGAATCTATGCAGAAGAAAATATAAAATGCCTCACATCAGAAAAAGTAGCTCAGATGAAGG  
 ACAGTCAAAAATGTTACAGGAAAGGCAAGATCTGCTGAAAAGATACTATAGGCATGACGATCCTGAAATA  
 GGAGCACATCATCTTGGCTTTCTCTGGGCTCTCTAGCAAACACCATTCCAGCTATGTTCTGGGCAATGT  
 ATTATATCTTCCGCATCCTGAAGCTATGGAAGCCCTGCGTGACGAAATTGACAGTTTCTGCAGTCAAC  
 AGGTCAAAAGAAAGGACCTGGAATTTAGTCCACTTACCAGAGAACAATTGGACAGCTTGGTCTGCCTG  
 GAAAGCACTATTCTTGAGGTTCTGAGGCTGTGCTCATACTCCAGCATCATCCGAGAAGTGCAGGAGGATA  
 TGAATCTCAGCTTAGAGAGTAAGAGTTTCTCTGCGGAAAGGAGATTTTGTAGCCCTTTTCTCCACT  
 CATAACAATGACCCGGAATCTTCGATGCTCCAAGGAATTTAGGTTGATCGCTTCATAGAAGATGGT  
 AAGAAGAAAAGCACGTTTTTCAAAGGAGGGAAGAGGCTGAAGACTACGTTATGCCTTTTGGACTCGGAA  
 CAAGCAATGTCCAGGGAGATATTTGAGTGAACGAAATGAAGCTACTGCTGATTATGCTTTTAACTTA  
 TTTTGATTTAGAAATATCGACAGGAAGCCTATAGGGCTAAATCACAGTCGGATGTTTTTAGGTATTAG  
 CACCCCGATTCTGCCGTCTCTTTAGGTACAAAGCAAAATCTTGGAGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208153 protein sequence  
 Red=Cloning site Green=Tags(s)

MQGATTLDAASPGLALLGLLFAATLLLSALFLLRRTRRRPREPPLIKGWL PYLGMALKFFKDPLTFLKT  
 LQRQHGDTFTVFLVGKYITFVLNPFQYQYVTKNPKQLSFQKFSRLSAKAFSVKLLTDDDLNEDVHRAY  
 LLLQGGKPLDALLEMTIQEVKELFESQLLKITDWNTERIFAFCSLVFEITFATLYGKILAGNKKQIISEL  
 RDDFFKFDMPYLVSDIPIQLLRNEESMQKKI IKCLTSEKVAQMQGQSKIVQERQDLLKRYRHHDDPEI  
 GAHHLGFLWASLANTIPAMFWAMYIILRHPEAMEALRDEIDSFLQSTGQKKGPGISVHFTREQLDSLVLCL  
 ESTILEVLRCSYSSIIREVQEDMNL SLESKFSRLRKGDFVALFPPLIHNDPEIFDAPKEFRFRDFIEDG  
 KKKSTFFKGGKRLKTYVMPFGLGTSKCPGRYFAVNEMKLLLIMLLTYFDLEIIDRPIGLNHSRMFLGIQ  
 HPDSAVSFRYKAKSWRS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

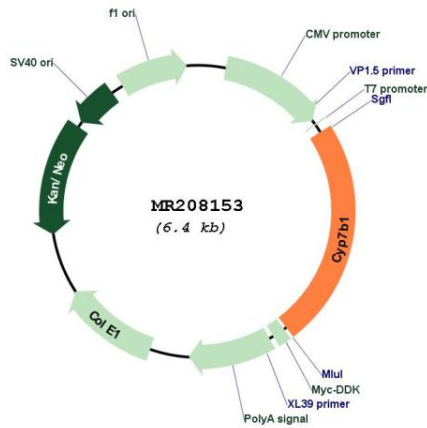
Sgfl-MluI



**MW:** 58.5 kDa

**Gene Summary:** Oxysterol 7 $\alpha$ -hydroxylase that mediates formation of 7- $\alpha$ ,25-dihydroxycholesterol (7- $\alpha$ ,25-OHC) from 25-hydroxycholesterol (PubMed:9295351). Plays a key role in cell positioning and movement in lymphoid tissues: 7- $\alpha$ ,25-dihydroxycholesterol (7- $\alpha$ ,25-OHC) acts as a ligand for the G protein-coupled receptor GPR183/EBI2, a chemotactic receptor for a number of lymphoid cells (PubMed:22999953).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208153