

## Product datasheet for MR229055

### Cyb5r2 (NM\_001205227) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cyb5r2 (NM_001205227) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyb5r2
Synonyms:	b5R.2; D630003K02Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229055 representing NM_001205227 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGTGTCAAGAAGAAAGATCTTATCACCTTACAGGACCCTGAAGCCAAGTACCCGCTGCCCTTGATTG  
AGAAGGAGCAAATCAGTCACAACACCAGAAGTTCCGCTTTGGGCTGCCCTCACCAGACCATGTCCTGGG  
GCTTCCTGTCGGTAACTATGTCCATCTCTTGGCACAATAACAATGAATTGGTGATCAGGGCTTACACA  
CCTGTCTCCAGTGACGATGATCAAGGCTTTGTGGACTTAATTATAAAGATCTACTTCAAAAATGTGCACC  
CCAAGTATCCTGAAGGAGAAAGATGACTCAGTACTTGGAGAACATGAAAATTGGGGATACCATCCTTTT  
TCGGGGGCCAACAGGGCGCCTGTTCTACAATGAGCCAGGCTGCCAGACAAGGGCTGCAGAAGTCAAAAAC  
ATCTTTATATTTCTAGGAACCTTTTAAATCAAAGCAAACAAAACAAGTGAGCCTGAAAAAAGCTGGTTC  
ACCACCTGGGGATGATTGCTGGAGGCACAGGCATTACGCCATGCTACAGCTGATTCGCCACATCACCAA  
GGACACCAGCGATGAGACCAGGATGTCCCTCCTTTGCTAACAGACAGAAGAGGATATCTTGCTGAGA  
AAGGAGCTAGAAGAAGTCGCCACGACTCATCAAAACAGTTCAACCTGTGGTATACCTGGACAGGCCTC  
CCAGTGACTGGAAGTACAGCTCAGGCTTTGTTAGCGCTGACATGATCAAGGAGCACCTCCCTCCTCTGG  
GGAGGACACGCTCATCCTGGTGTGTGGCCACCACCTCTGATCCAGGCGGCAGCTCACCCAGCCTGGAG  
CAGCTCAGCTATACCAAGGACATGATTTTTATCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229055 representing NM\_001205227  
 Red=Cloning site Green=Tags(s)

MSVKKKDLITLQDPEAKYPLPLIEKEQISHNTRFRFGLPSPDHVGLPVGNYVHLLAQINNELVIRAYT  
 PVSSDDQGFVDLIIKIYFKNVHPKYPEGGKMTQYLENMKIGDTILFRGPTGRLFYNPEGCQTRAAEVKN  
 IFIFLGTLLIKANKTSEPEKLVHHLGMIAGGTGITPMLQLIRHITKDTSDETRMSLLFANQTEEDILLR  
 KELEEVATTHHKQFNLWYTLDRPPSDWKYSSGFVSADMIKEHLPPPAGEDTLILVCGPPPLIQAAAHPSLE  
 QLSYTKDMIFIY

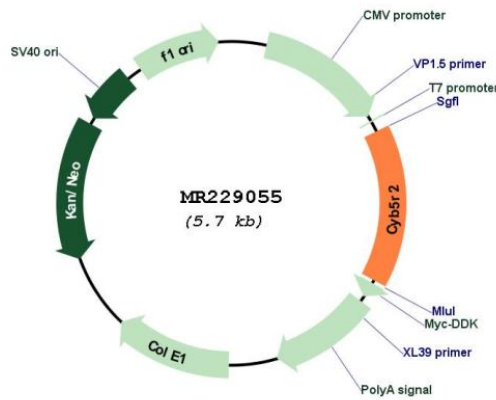
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001205227

**ORF Size:** 876 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001205227.1</a> , <a href="#">NP_001192156.1</a>
<b>RefSeq Size:</b>	2772 bp
<b>RefSeq ORF:</b>	879 bp
<b>Locus ID:</b>	320635
<b>UniProt ID:</b>	<a href="#">Q3KNK3</a>
<b>Cytogenetics:</b>	7 E3
<b>MW:</b>	33.6 kDa
<b>Gene Summary:</b>	NADH-cytochrome b5 reductases are involved in desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction. Responsible for NADH-dependent lucigenin chemiluminescence in spermatozoa by reducing both lucigenin and 2-[4-iodophenyl]-3-[4-nitrophenyl]-5-[2,4-disulfophenyl]-2H tetrazolium monosodium salt (WST-1) (By similarity).[UniProtKB/Swiss-Prot Function]