

## Product datasheet for MR219080

### Mrps27 (NM\_173757) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mrps27 (NM_173757) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mrps27
Synonyms:	2610028H14Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR219080 representing NM_173757 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGGCTCCCATGGTGC GG TGGGATGCTCCTGGCTCGGCGACTAGACGCGTCTCGCCTTTGCCTCG  
CAGGTAAGATGCCTGCTTTCTGCAGCGTACGTGGACAGCCACCAGTGGGAAGCCAGAGAGAAGGAGGA  
ATACCATCTGGCTGATCTTGATCCTTAATGGACAAAGCGTATGAAAGAAAATTGCCTGTTAGTTCTTTA  
TCAATATCACGGTTTGTGGACAACATTGCATCCCGAGAAGATCTAGATTCTGCAGAGTACTATCTTTACA  
AATTTGCACACAGTCCCAACTGCTGGTACCTAAGAGACTGGACCATCCACAGCTGGATTAGACAGTGTCT  
GAAATACGGAGACAAGACAAAGCCTTGTATACACTTGTAAATAAGGTTCAAGTATGGAATTTTCCAGAT  
AACTTTACATTCAACTTACTGATGGATTATTTCAAAAGAAAGGAAATTACAAAGATGCTTTATCCGTGG  
TTTTTGAGATCATGATGCAAGAAGCCTTTGACGTGCCGTCCACCCAGTTTCTCTCCCTATGTTTTATA  
CCGTTGCCTAGCAGAGAAGACGGAGCTCACATGGGAAGAAGAAAGAGACTTTGGGGCGTCCCTCTTGCTT  
TCTGGCCTGAAACAAAGGAACACAGTGGGCCTGAGTCCCAGCTGTATGGCTATGCACTTCTCGGGAAGG  
TGAACCTGCAGCGTGGGGTGC GG GCTGTATACCACGGCATGCCCTGATGTGGACACCAGGCTACCTCGA  
CAGAGCCCTCCAAGTATGAGAGGGTGGCCTCCTCCCTGAAGACCTCAAGCTGGGTAGAGAAGTGCTC  
GATGTGCTGGATGGAGTCTGAAGTGGTGACGCTCCAGATGTCCAGACTTCAGAGGCACAGCCTCAGG  
AAGGTGAAGATGGCTTGGGCTCAGCAAACCTGGTGGAGCAGCTAGACACTGAGGAACCAGAACAGTCCAA  
GCTTCCCCGATACCTCGAGCGCTTTCAGGCCTCTCGGTCTAAACTGCAGGAGCTGAACAGAGTTGAGTCT  
GAAAGTCTTTGACTCTGACCACCCAGCTTGTAAAAGAAAACTCCCCGCTGTGAGGCCGAGGACCTGG  
CCACCTACGAGCAGAACTCCGTGAGTGGCACCTGGAGCGGTGCAGTTGATCCAGAGGGAGCAGGAACA  
GAGGGAGAAGGCCAAGCAAGAGTACCAGGCGCTGAGTGC GG CAGAGAAAGCAGCC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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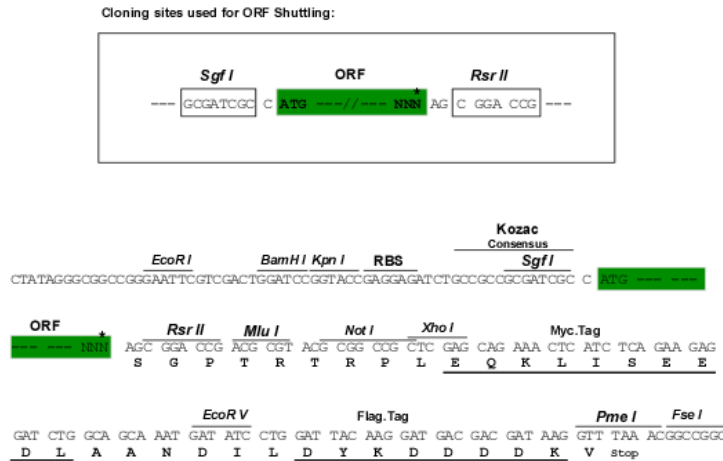
Protein Sequence: >MR219080 representing NM\_173757  
 Red=Cloning site Green=Tags(s)

MAAPMVRCGMLLARLDASRLCLAGKRCLLSAAYVDSHQWEAREKEEYHLADLASLMDKAYERKLPVSSL  
 SISRFDVNIASREDLDSAEYYLYKFRHSPNCWYLRDWTIHSWIRQCLKYGAQDKALYTLVKNVQYGI  
 NFFTFNLLMDYFIKKGNYKDALSVVFEIMMQEAFDVPSTQFLSLVLYRCLAEKTELTWEEERDFGASLL  
 SGLKQRNTVGLSSQLYGYALLGKVELQRGVRVYHGMPLMWTGPGYLDRALQVMERVASSPEDLKL  
 GREVL DVL DGV LKVV TSPDVQTSEAQPQEGEDGLGSANLVEQLDTEEPQSKLPRYL  
 LERFQASRSKLQELNRVES ESSLTLTTLQVKEKLPACEAEDLATYEQKLREWHLERVQLIQREQEQREKAKQEYQALSAAEKAA

SGP TRTRRL EQKLI SEEDLAANDILDYKDDDDKV

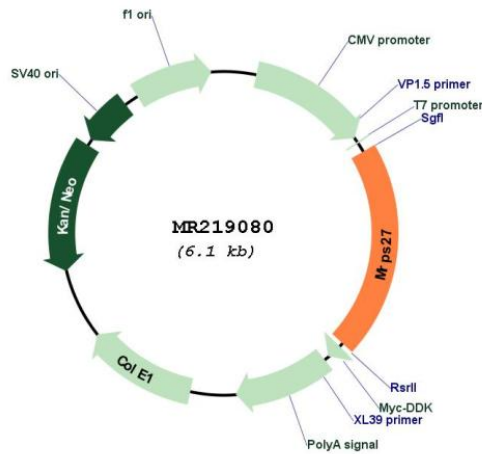
Restriction Sites: SgfI-RsrII

Cloning Scheme:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_173757

<b>ORF Size:</b>	1245 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_173757.3</a> , <a href="#">NP_776118.2</a>
<b>RefSeq Size:</b>	1849 bp
<b>RefSeq ORF:</b>	1248 bp
<b>Locus ID:</b>	218506
<b>UniProt ID:</b>	<a href="#">Q8BK72</a>
<b>Cytogenetics:</b>	13 D1
<b>MW:</b>	48.2 kDa
<b>Gene Summary:</b>	RNA-binding component of the mitochondrial small ribosomal subunit (mt-SSU) that plays a role in mitochondrial protein synthesis. Stimulates mitochondrial mRNA translation of subunit components of the mitochondrial electron transport chain. Binds to the mitochondrial 12S rRNA (12S mt-rRNA) and tRNA(Glu). Overexpressed in hepatocellular carcinoma tissues compared with adjacent non-tumoral liver tissues.[UniProtKB/Swiss-Prot Function]