

## Product datasheet for MC209123

### Oprk1 (NM\_011011) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Oprk1 (NM_011011) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Oprk1
Synonyms:	K-OR-1; KOR; KOR-1; MSL-1; Op; Oprk2; R2; R21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209123 representing NM_011011 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGTCCCCATTAGATCTTCCGAGGAGATCCAGGCCCTACCTGCTCTCCAGTGCTTGCCTTCTCC  
CCAACAGCAGCTTTGGTTCCCAACTGGGCAGAAATCCGACAGTAATGGCAGTGTGGGCTCAGAGGATCA  
GCAGCTGGAGTCCGCGCACATCTCTCCGGCCATCCCTGTTATCATCACCGCTGTCTACTCTGTGGTATTT  
GTGGTGGGCTTAGTGGCAATTCTCTGGTCATGTTTGTTCATCATCCGATACACGAAGATGAAGACCGCAA  
CCAACATCTACATATTTAACCTGGCTTTGGCAGATGCTTTGGTTACTACCACTATGCCCTTTCAGAGTGC  
TGCTACTTGATGAATCTTGGCCTTTGGAGATGTGCTATGCAAGATTGCATTTCCATTGACTACTAC  
AACATGTTTACCAGCATATTCACCTTGACCATGATGAGTGTGGACCGCTACATTGCTGTGTGCCACCTG  
TGAAAGCTTTGGACTTCCGAACACCTTTGAAAGCAAAGATCATCAACATCTGCATTTGGCTCCTGGCATC  
ATCTGTTGGTATATCAGCGATAGTCCTTGGAGGCACCAAAGTCAGGGAAGATGTGGATGTCATTGAATGC  
TCCTTGCAGTTTCTGATGATGAATATTCCTGGTGGGATCTTTCATGAAGATCTGTGCTTTCGCTTTG  
CCTTTGTGATCCAGTCCCTCATCATATTGTCTGCTACACCCTGATGATCCTGCGCCTGAAGAGTGTCCG  
GCTCCTGTCTGGCTCCCGAGAGAAGGACCGAAAATCTCCGCCGATCACCAGCTGGTGTGGTAGTAGTT  
GCAGTCTTCATCATCTGTTGGACCCCATTCACATCTTTATCCTGGTGGAGGCTCTGGGAAGCACCTCCC  
ACAGCACAGCTGCCCTCTCCAGCTATTATTTCTGTATTGCTTGGGTTATACCAACAGCAGCCTGAATCC  
TGTTCTCTATGCCTTTCTGGATGAAAATCAAGCGGTGTTTTAGGGACTTCTGCTTCCCTATTAAGATG  
CGAATGGAGCGCCAGAGCACCAATAGAGTTAGAAAACACAGTTCAGGATCCTGCTTCCATGAGAGATGTGG  
GAGGGATGAATAAGCCAGT**ATGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Chromatograms:	<a href="https://cdn.origene.com/chromatograms/ja2491_b10.zip">https://cdn.origene.com/chromatograms/ja2491_b10.zip</a>
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_011011
Insert Size:	1143 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
Components:	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).
Reconstitution Method:	<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>
RefSeq:	<a href="#">BC119026</a> , <a href="#">AAI19027</a>
RefSeq Size:	4677 bp
RefSeq ORF:	1143 bp
Locus ID:	18387
UniProt ID:	<a href="#">P33534</a>
Cytogenetics:	1 1.89 cM

**Gene Summary:**

This gene encodes an opioid receptor, which is a member of the 7 transmembrane-spanning G protein-coupled receptor family. It functions as a receptor for endogenous ligands, as well as a receptor for various synthetic opioids. Ligand binding results in inhibition of adenylate cyclase activity and neurotransmitter release. This opioid receptor plays a role in the perception of pain and mediating the hypolocomotor, analgesic and aversive actions of synthetic opioids. Variations in this gene have also been associated with alcohol dependence and opiate addiction. Alternatively spliced transcript variants have been found for this gene. A recent study provided evidence for translational readthrough in this gene, and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon. [provided by RefSeq, Dec 2017]

Transcript Variant: This variant (2) uses an alternate acceptor splice site in the 5' non-coding region and has a shorter 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform (1).