

Product datasheet for **MR219106**

Hmmr (NM_013552) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hmmr (NM_013552) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hmmr
Synonyms:	AA386826; CD168; Rhamm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR219106 representing NM_013552
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTTTCCTAAGCGCCCTGAAGAGATTCAATGACCCTTCGGGTTGTGCTCCATCTCCGGGTGCTT
 ATGATGTTAAAACCTTCAGAAGCAACTAAAGGACCAGTGTCTTTTCAGAAATCACAAAAGATTTAAAAACCA
 AAGAGAGTCTCAACAAAATCTTAACATTGACAAAGATACAACTTGCTTGCTTCGGCTAAAAAAGCAAAG
 AAGTCTGTGTCAAAGAAGGACTCTCAGAAGAATGATAAAGATGTGAAGAGATTAGAAAAAGAGATTCGCG
 CTCTTTTGCAAGAGCGAGGGACTCAGGACAAACGGATCCAGGACATGGAATCTGAATTGGAGAAGACAGA
 AGCAAAGCTCAATGCAGCAGTCAGAGAGAAAACATCTCTCTGCGAGTAATGCTTCACTGGAAAAACGG
 CTTACTGAATTAACCAGAGCCAACGAGCTACTAAAGGCTAAGTTTTCTGAAGATGGTCACCAAAAGAATA
 TGAGAGCTCTAAGCCTGGAATTGATGAAACTCAGAAATAAGAGAGAGACAAAGATGAGGAGTATGATGGT
 CAAACAGGAAGGCATGGAGCTGAAGCTGCAGGCCACTCAGAAGGACCTCACGGAGTCTAAGGAAAAATA
 GTCCAGCTGGAGGAAAAGCTTGTTCATAGAGAAAAGAAAAGATCGATGAAAAATGTGAAACAGAAAAAC
 TCTTAGAATACATCCAAGAAATTAGCTGTGCATCTGATCAAGTGAAAAATGCAAAGTAGATATTGCCCA
 GTTAGAAGAAGATTTGAAAGAGAAGGATCGTGAGATTTTAAAGTCTTAAGCAGTCTCTTGAGGAAAACATT
 ACATTTTCTAAGCAAATAGAAGACCTGACTGTTAAATGCCAGCTACTTGAAACAGAAAGAGACAACCTTG
 TCAGCAAGGATAGAGAAAAGGGCTGAAACTCTCAGTGCTGAGATGCAGATCCTGACAGAGAGGCTGGCTCT
 GGAAAGGCAAGAATATGAAAAGCTGCAACAAAAGAATTGCAAAGCCAGTCACTTCTGCAGCAAGAGAAG
 GAAGTGTCTGCTCGTCTGCAGCAGCAGCTCTGCTCTTCCAAGAGGAAAATGACTTCTGAGAAGAAGCTCT
 TTAAGAAGAGCTAAAGCTCGCCCTGGCTGAGTTGGATGCGGTCCAGCAGAAGGAGCAGAGTGAAAG
 GCTGGTTAAACAGCTGGAAGAGGAAACGAAGTCAACTGCAGAACAACAGCAGCGGCTGGACAACCTGCTG
 AGAGAGAAAAGAAGTTGAACTGGAGAAAACATATTGCTGCTCACGCCCAAGCCATCTTGATTGCACAAGAGA
 AGTATAATGACACAGCACAGAGTCTGAGGGACGTCAGTCTCAGTTGAAAGTGTGCAAGAGAAGTATAA
 TGACACAGCACAGAGTCTGAGGGACGTCAGTCTCAGTTGAAAGTGTGCAAGAGAAGTACAATGACACACA
 GCACAGAGTCTGAGGGACGTCAGTCTCAGTTGAAAGTGTGCAAGAGAAGTACAATGACACAGCACAGA
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 GGACGTCAGTCTCAGTTGAAAGCTATAAGTCATCAACACTTAAAGAAATAGAAGATCTTAAACTGGAG
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 CAAGATGAAGACTTTAGGAAGCAGCTGGAAGAGAAAAGGAAAAAGAACAGCAGAGAAAAGAAAATGTAATGA
 CAGAATTAACCATGGAAATTAATAAATGGCGTCTCCTATATGAAGAACTATGAAAAAACTAAACCTTT
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 CAGCTAAATAAAATCAGAGACTCCTATGCACAGCTACTTGGTACCAGAACCTAAAGCAAAAAATCAAAC
 ATGTTGTGAAATGAAAGATGAAAATAGCCAACCAAATCGGAGGTGTCAAACCTCCGATCTCAGCTTGT
 TAAAAGGAAACAAAATGAGCTCAGACTTCAGGGAGAATTAGATAAAGCTCTGGGCATCAGACACTTTGAC
 CCTTCCAAGGCTTTTGTGCATGCATCTAAGGAGAATTTACTCCATTAAGAAGGCAACCCAAACTGCT
 GC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR219106 representing NM_013552
Red=Cloning site Green=Tags(s)

MSFPKAPLKRFNDPSPGCAPSPGAYDVKTSEATKGPVVSFQKSQRFKNQRESQQNLNIDKDTLLASAKKAK
KSVSKKDSQKNDKDVKRLEKEIRALLQERGTQDKRIQDMESELEKTEAKLNAAVREKTSLSASNASLEKR
LTELTRANELLKAKFSEDGHQKNMRALSLELMKLRNKRETKMRSMMVKQEGMELKLQATQKDLTESKGI
VQLEGKLVSIEKEKIDEKCETEKLLLEYIQEISCASDQVEKCKVDIAQLEEDLKEKDREILSLKQSLEENI
TFQKQIEDLTVKCQLLETERDNLVSKDRERAETLSAEMQILTERLALERQYEKLLQKELQSQSLLQKEK
ELSARLQQQLCSFQEEMTSEKNVFKEELKLALAELEDAVQQKEEQSERLVKQLEEEETKSTAEQLTRLDNLL
REKEVELEKHIAAHAQAIIAQQEKYNDTAQSLRDVTAQLESVQEKYNDTAQSLRDVTAQLESEQEKYNDT
AQSLRDVTAQLESEQEKYNDTAQSLRDVTAQLESVQEKYNDTAQSLRDVTAQLESYKSSSTLKEIEDLKLE
NLTLQEKVAMAESVEDVQQIILTAESTNQEYARMVQDLQNRSTLKEEIKEITSSFLEKIDLNQLRQ
QDEDFRKQLEEKGKRTAEKENVMTELMEINKWRLLYEELYEKTKPFQQQLDAFEAEKQALLNEHGATQE
QLNKIRDSYAQLLGHQNLKQKIKHVVKLDENSQKSEVSKLRSQLVKRRQNELRLQGELDKALGIRHFD
PSKAFCHASKENFTPLKEGNPCC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9034_c05.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_013552

ORF Size: 2382 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_013552.2](#), [NP_038580.2](#)

RefSeq Size: 3914 bp

RefSeq ORF: 2385 bp

Locus ID: 15366

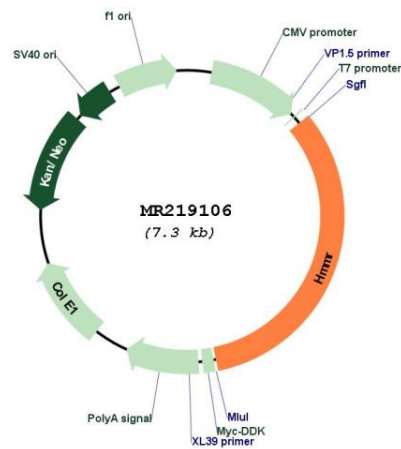
UniProt ID: [Q00547](#)

Cytogenetics: 11 24.4 cM

MW: 92.2 kDa

Gene Summary: Receptor for hyaluronic acid (HA) (PubMed:1376732). Involved in cell motility (PubMed:1376732). When hyaluronan binds to HMMR, the phosphorylation of a number of proteins, including the PTK2/FAK1 occurs. May also be involved in cellular transformation and metastasis formation, and in regulating extracellular-regulated kinase (ERK) activity. May act as a regulator of adipogenesis (PubMed:22666460).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219106