

## Product datasheet for MR211131

### Hip1 (NM\_146001) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hip1 (NM_146001) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hip1
Synonyms:	2610109B09Rik; A930014B11Rik; E130315I21Rik; mKIAA4113
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211131 representing NM_146001 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCGAATGGCCAGCTCCATGAAGCAGGTATCCAACCCGCTGCCAAAGTGTGAGCCGCCGGAG  
TTGGTGTGGGATGGAGGCTGCGGAGCGCGAGAGCTTCGAGCGGACTCAGACGGTCAGCGTCAATAAGGC  
CATTAAATACGCAGGAAGTGGCCGTGAAAGAGAACATGCCAGGACGTGTATTCTGGGCACCCACCATGAG  
AAAGGAGCGCAGACCTTTTGGTCTGTGGTCAACCGACTGCCTCTCCAGCAACGCCATGCTGTGCTGGA  
AGTTTTGTCACGTGTTCCACAACTTCTTCGAGATGGACATCCGAACGTGCTGAAAGACTCTCTGAGATA  
CAAAAATGAGTTAAGCGACATGAGCAGGATGTGGGGCCACCTGAGCGAGGGGTATGGACAGCTTTGCAGC  
ATCTACCTCAAATGCTGAGAACAAGGATGGAGTACCACACCAAAAATCCAGGTTCCCGGGCAACCTCC  
AGATGAGTGACCGACAGCTGGATGAGGCCGGAGAAAGTGACGTTAAACAATTTTTTCAGCTCACAGTGGA  
GATGTTTGATTACCTGGAGTGTGAAGTGAACCTCTTCAGACTGTGTTCAACTCCTTGGACATGTCCCGT  
TCGGTGTCCGTGACCACGGCTGGCCAGTGCCGCTCGCACCCTCATCCAGGTATCCTGGACTGCAGTC  
ACCTCTATGACTACACTGTCAAGCTGCTCTTCAAGCTCCACTCCTGTCTTCCAGCTGACACCCTGCAGGG  
CCACCGAGACCGCTTCATGGAGCAGTTCACAAAGTTGAAAGATCTGTTTCAGCGCTCCAGCAACCTACAG  
TACTTCAAGCGGCTCATTAGATCCCCAGCTGCCGAGAAATCCACCAACTTCTACGAGCTCGGCC  
TGTGAGAGCACATCAGTCTGTGGTGGTATCCCGGCAGAGGTGTCATCCCAGACAGTGAGCCTGTCTT  
GGAGAAGGATGACCTCATGGACATGGACGCTCCAGCAGACTTTGTTTGACAACAAGTTTGATGACGTC  
TTTGGCAGCTCATTGAGCAGCGACCTTTCAATTTCAACAATCAAAATGGCGTGAACAAGGACGAGAAGG  
ACCACTTGATTGAACGCCTGTACAGAGAGATCAGTGGACTGACAGGGCAGCTGGACAACATGAAGATTGA  
GAGCCAGCGGGCCATGCTGCAGTGAAGGGTCGAGTGAGTGGAGGAGCTAGCAGAGCAGCAG  
CACTTGGCCGGCAGGCTATGGATGACTGCGAGTTCCTGCGCACTGAGCTGGATGAACTGAAGAGGCAGC  
GAGAGGACACGGAGAAGGCACAGCGCAGCTGACTGAGATAGAAAGAAAGGCCAGGCTAATGAACAGAG  
GTATAGCAAGTTAAAAGAGAAGTACAGTGAAGTGGTGCAGAACCATGCTGACCTGCTCGGAAGAAGCGCA



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GAGGTGACCAAACAGGTGTCCGTGGCCCGCAAGCCAGGTGGATTTGGAAAGAGAGAAAAAGAGCTAG  
 CAGATTCCTTTGCACGGACTCAAGAGCAACAGGATGTTCTAGAGAACCTGAAGCATGAACTGGCCACCAG  
 CAGACAGGAGCTGCAGGTCTCCACAGCAACCTGGAAACCTTGCCAGTCAGAAGCGAAATGGCTGACA  
 CAGATCGCCGAGTTGGAGAAGGAACAAGGCAGCTTGGCGACTGTTGCAGCTCAGAGAGAGGAAGATTAT  
 CAGCCCTCCGAGACCAGCTGAAAGCACCCAGATCAAGCTGGCTGGGGCCAGGAATCCATGTGCCAGCA  
 GGTGAAGGACCAGAGGAAAACCTCTTGGCAGGGATCAGGAAGGCTGCGGAGCGTGAGATACAGAGGGC  
 CTGAGCCAGCTTGAGGAACCCACCTCATCAGCTGTGCAGGATCCACAGATCACCTTCTCTCCAAGTCA  
 GCTCCGTTTCCAGCTGCCTCGAGCAACTGGAAAAGAACGGCAGCCAGTATCTGGCCTGCCAGAAGATAT  
 TAGTGAGCTTCTGCACTCGATCACCTGCTTGCCCACTTGACCGGTGACACTATCATCCAGGGGAGTGCC  
 ACCAGCCTCCGGGCCACCAGGAGCCAGCCACTCGCTGACGGAGGCTGTAGGCAGTATGGCAGAGAAA  
 CCCTGGCCTATCTGCTCCCTGGAGGAAGAGGGAAGTATGGAGAATGCTGACGTCACAGCCCTTAGGAA  
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 CTGGGTGACCTGGTGGACAAGGAGATGGCAGCCACTTCAGCTGCCATTGAAGCTGCCACCACCCGGATAG  
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 TTCTGTACCAGCCTGATGCAGGCCATCAAGGTGCTCGTTGTGGCCTCCAAGGACCTCCAGAAGGAGATA  
 GTGGAGAGTGGCAGGGGACTGCATCCCTAAAGAATTTACGCCAAGAAGCTCTCGGTGGACGGAAGGGC  
 TGATATCCGCCTCCAAGCTGTTGGTGGGGAGCTACCATCATGGTGGATGCTGTGATCTTGTGGTCCA  
 AGGCAAAGGGAAGTTCGAGGAGCTGATGGTGTGTTACGCGGAGATTGCTGCCAGTACTGCCAGCTCGTG  
 GCTGCATCCAAGGTGAAAGCGAACAAGGGCAGCCTCAATCTGACCCAGCTGCAGCAGGCCTCTCGAGGAG  
 TGAACCAGGCCACAGCCGCTGTGGTGGCCTCAACCATTCTGGCAATCTCAGATTGAGGAAACAGACAG  
 TATGGACTTCTAAGCATGACTGACCCAGATCAAGCGCCAGGAGATGGATTCCAGGTTAGGGTGCTG  
 GAGCTGGAAAATGACCTGCAGAAGGAGCGTCAGAACTAGGAGAGCTACGGAAGAAACACTACGAGCTGG  
 CGGGCGTGGCTGAGGGCTGGGAGGAAGGGACAGAAGCATCACCGTCTACTGTCCAAGAAGCAATACCGGA  
 CAAAGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR211131 representing NM\_146001

Red=Cloning site Green=Tags(s)

MDRMASMKQVSNPLPKVLSRRGVGAGMEAAERESFERTQTVSVNKAINTQEAVVKEKHARTCILGTHHE  
 KGAQTFWSVVRNRLPLSSNMLCWKFCHVFHKLRLDGHVNLKDSLRYKNELSDMSRMWHLSEGYQLCS  
 IYLLKLRTRMEYHTKNPRFPGNLQMSDRQLDEAGESDVNFFQLTVEMFDYLECELNLFQTVFNSLDMR  
 SVSVTTAGQCRLAPLIQVILDCSHLYDYTVKLLFKLHSLPADTLQGHRDRFMEQFTKLDLQFRSSNLQ  
 YFKRLIQIPQLPENPPNFLRASALSEHISPVVVIPAEVSSPDSEPVLEKDDLMDMDASQQTLFDNKFDDV  
 FGSSLSSDPFNFNNQNGVKNKDEKDLIERLYREISGLTGQLDNMKIESQRAMLQLKGRVSELEAELAEQQ  
 HLRQAMDDCEFLRTELDELKRQREDTEKAQRSLTEIERKAQANEQRYSKLKEKYSSELVQNHADLLRKNA  
 EVTKQVSVARQAQVDLEREKELADSFARTQEQQDVLENLKHELATSRQELQVLHNSLETSAQSEAKWLT  
 QIAELEKEQGLATVAAQREEEL SALRDQLESTQIKLAGAQESMCQQVKDQRKTLLAGIRKAAEREIQEA  
 LSQLEEPTLISCAGSTDHLLSKVSSVSSCLEQLEKNGSQYLACPEDISELLHSITLLAHLTGDTIIQGS  
 TSLRAPPEPADSLTEACRQYGRETLAYLSSLEEGTMENADVTLRNCLSRVKTLLGEELLPRGLDIKQEE  
 LGDLVDKEMAATSAAIEAATTRIEEILSKSRAGDTGVKLEVNERILGSCTSLMQAIKVLVASKDLQKEI  
 VESGRGTASPKEFYAKNSRWTEGLISASKAVGWGATIMVDAADLVVQGGKFEELMVCSSREIAASTAQLV  
 AASKVKANKGSLNLTQLQASRVGNQATAAVVASTISGKSQIEETDSMDFSSMTLTQIKRQEMDSQVRVL  
 ELENLQKERQKL GELRKKHYELAGVAEGWEEGTEASPSTVQEAIPDKE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9048\\_a09.zip](https://cdn.origene.com/chromatograms/mm9048_a09.zip)

**Restriction Sites:**

Sgfl-Mlul

## Cloning Scheme:



ACCN: NM\_146001

ORF Size: 3087 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\\_146001.2](#), [NP\\_666113.2](#)

RefSeq Size: 7883 bp

RefSeq ORF: 3090 bp

Locus ID: 215114

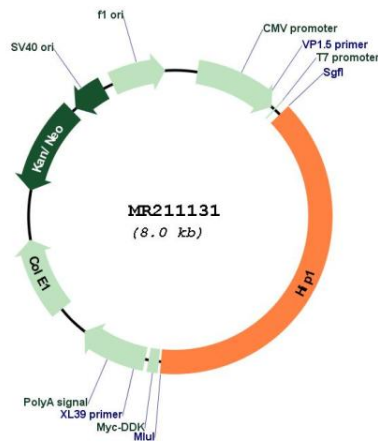
UniProt ID: [Q8VD75](#)

**Cytogenetics:** 5 75.18 cM

**MW:** 115.7 kDa

**Gene Summary:** Plays a role in clathrin-mediated endocytosis and trafficking (PubMed:11577110). Involved in regulating AMPA receptor trafficking in the central nervous system in an NMDA-dependent manner (PubMed:12839988, PubMed:17329427). Regulates presynaptic nerve terminal activity (PubMed:17928447). Enhances androgen receptor (AR)-mediated transcription (By similarity). May act as a proapoptotic protein that induces cell death by acting through the intrinsic apoptosis pathway (By similarity). Binds 3-phosphoinositides (via ENTH domain) (By similarity). May act through the ENTH domain to promote cell survival by stabilizing receptor tyrosine kinases following ligand-induced endocytosis (By similarity). May play a functional role in the cell filament networks (By similarity). May be required for differentiation, proliferation, and/or survival of somatic and germline progenitors (PubMed:11604514, PubMed:14998932, PubMed:16967501, PubMed:17928447).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR211131