

Product datasheet for MR211530

Herc4 (NM_026101) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Herc4 (NM_026101) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Herc4
Synonyms:	1700056O17Rik; 4921531D01Rik; 9530080M15Rik; mKIAA1593
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211530 representing NM_026101 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGTGCTGGGCAATGCATCCTATGGACAAGTGGTGGGAGGAATTGATGAAGAAATGTACTAG
AGCCCAGGAGAAGTGACTTTTTCGTGAACAAAAGGTCCGAGATGTAGGCTGTGGACTCAGGCACACTGT
GTTTGTCTGGATGATGGGACTGTGTACACATGTGGATGAATGATCTAGGACAGCTAGGTCATGAAAAG
TCCAGAAAAGAACAGAGCAGGTTGTTGCCCTGGATGCCAGAATATCGTAGCTGTTGCGTGTGGAGAAG
CTCACACGTTAGCGCTGAATGACAAGGGCCAGGTGTATGCTTGGGGTCTCGACTCTGACGGACAGCTTGG
CCTACAGGGATCAGAGGAATGTATCAGAGTACCCAGAAAATATAAAAGTCTTTCGGATATCCAGATAGTA
CAGGTTGCGTGTGGTTACTATCATTGCTTGCCTTTCTAAAGCAAGTGAAGTTTTCTGTTGGGGACAGA
ATAAATATGGCCAGCTGGGTCTAGGCATTGATTGTCAAAGCAAACCTTACCACAGCTGATTAAGTCTTT
GCTTGGAAATACCATTCATGCAAGTCGCAGCAGGAGGAGCCCATAGTTTTGTACTCACCTTTCCGGAGCT
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ATTTACTAAAGTCACTAAGATCTCAGAAAATAGTTTATATTTGTTGCGGAGAAGATCATACTGCTGCATT
AACCAAGGAAGGTGGAGTGTACCTTTGGAGCTGGGGCTATGGCCAGCTGGGTGATAATTCTACCAGT
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AGCATACCTCTGCATTTGTTCTTTCAGGACGAATTTACTCCTTTGGTCTTGGTGAATGGGACGTT
GGAACTGGTTCAACCAGCAACAGAAAAAGCCCTTCACTGTAAAAGGAACTGGTTTTCTATAATGGA
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GCAATGACGATCACTATAGAACAGGTACCAGATTTTTCAGGGTTGATATGAACGCTGCTAGACTCTTATT
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ATCCCTAAACTGACTAGTTCCTACCTGATGTTGAAGCTCTGAGGTTTTATCTTACCCTGCCAGAGTGTC
 CCCTGATGAGTGACTGCAACAATTTACAACAATAGCAATCCCCTTTGGTACAGCTCTTGTGAACCTAGA
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 AGGACAACCTATTCAATATGACAAGTTTTACATCCATGAAGTCCAAGAGCTGATAGACATAAGGAATGAC
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 AGAGAAAAGAAACCCTCCGATGTAACCTGATCCAAGCTATTGATCACAATGAAGGCTTCAGTTAATA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211530 representing NM_026101

Red=Cloning site Green=Tags(s)

MLCWGNASYQLGLGGIDEEIVLEPRRSDFFVNKKVRDVGCLRHTVFVLDGTYVTCGCNDLGLGHEK
 SRKKPEQVVALDAQNIVAVACGEAHTLALNDKQVYAWGLDSDGQLGLQGSEECIRVPRNIKSLSDIQIV
 QVACGYHSLALSKASEVFCWGNQKYGLGLGIDCQKQTSPLIKSLLGIPFMQVAAGGAHSFVLTLSGA
 IFGWGRNKFQGLGLNDENDRYVPNLLKSLRSQKIVYICCGEDHTAALKEGGVFTFGAGGYQLGHNSTS
 HEINPRKVFELMGSIVTQVACGRQHTSAFVPSSGRIYSFGLGGNGQLGTGSTSNRKSPTVKGNWFSYNG
 QCPQDIGSEDFYCVKRIFSGGDQSFSHYSPQNCPPDDFRCSDPKQIWTVNEALIQKWSYPSGRFPV
 EIANEIDGTFSSSGCLNGSFLAISNDHYRTGTRFSGVDMNAARLLFHKLIQPDHPQISQVVAASLEKNL
 IPKLTSSLPDVEALRFYLTPECPMSDCNFTTIAIPFGTALVNLEKAPLKVLENWWSVLEPPLFLKIV
 ELFKEVVHLLKLYKIGIPPSERRIFNSFLHTALKVLEILHRVNEKTGQLIQYDKFYIHEVQELIDIRND
 YINWVQQAYGLADIPVTICTYPFVFDQAQTLLQTDVAVLQMQMAIDQHRQNVSSLFLPVIESVNPCL
 LILVVRRENIIVGDAMEVLRKTKNIDYKKPLKIVFVGEDAVDAGGVKREFFLLIMRELLDPKYGFRYYED
 SRLIWFSDKTFEDSDLFHLIGVICGLAIYNFTIVDLHFPLALYKLLKRPKSLDDLKELMPAVGRSMQQL
 LDYPEDDIEETFCLNFTITVENFGATEVKELVLNGADTAVNRQNRQEFVDAVVDYIFNKSVASLFDFAHA
 GFHKVCGGKVLVLLFQPNELQAMVIGNTNYDWKELEKNTYKGEYWADHPTIKIFWEVHELPLEKKKQFL
 LFLTGSDRIPILGMKSLKLVISQSTGGGESYLPVSHTCFNLLDLPKYTEKETLRCKLIQAIDHNEGFSLI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9047_g09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_026101

ORF Size: 3147 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_026101.4](#), [NP_080377.2](#)

RefSeq Size: 4019 bp

RefSeq ORF: 3150 bp

Locus ID: 67345

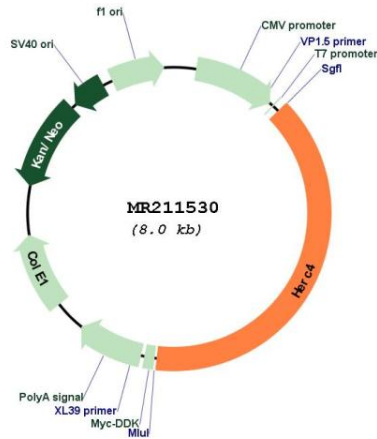
UniProt ID: [Q6PAV2](#)

Cytogenetics: 10 B4

MW: 118 kDa

Gene Summary: Probable E3 ubiquitin-protein ligase involved in either protein trafficking or in the distribution of cellular structures. Required for spermatozoon maturation and fertility, and for the removal of the cytoplasmic droplet of the spermatozoon. E3 ubiquitin-protein ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfer it to targeted substrates.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211530