

Product datasheet for MR231532

Herc4 (NM_030114) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Herc4 (NM_030114) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Herc4
Synonyms:	1700056O17Rik; 4921531D01Rik; 9530080M15Rik; mKIAA1593
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR231532 representing NM_030114 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGTGCTGGGCAATGCATCCTATGGACAAGTGGTGGGAGGAATTGATGAAGAAATGTACTAG
AGCCCAGGAGAAGTGACTTTTTTCGTGAACAAAAAGGTCGAGATGTAGGCTGTGGACTCAGGCACACTGT
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TCCAGAAAAGAAACCAGAGCAGGTTGTTGCCCTGGATGCCAGAAATATCGTAGCTGTTGCCGTGGAGAAAG
CTCACACGTTAGCGCTGAATGACAAGGGCCAGGTGTATGCTTGGGGTCTCGACTCTGACGGACAGCTTGG
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CAGGTTGCGTGTGGTTACTATCATTTCGCTTGCACCTTTCTAAAGCAAGTGAAGTTTTCTGTTGGGGACAGA
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GCTTGAATACCATTCATGCAAGTCGCAGCAGGAGGCCATAGTTTTGTACTCACCTTTCCGGAGCT
ATCTTTGGATGGGACGTAACAAATTTGGTCAGCTAGGTCTTAATGATGAAAATGATAGGTATGTTCCCTA
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AACCAAGGAAGGTGGAGTGTTCCTTTGGAGCTGGGGCTATGGCCAGCTGGGTGATAATCTACCAT
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CCCTGATGAGTGACTGCAACAATTTACAACAATAGCAATCCCCTTTGGTACAGCTCTTGTGAACCTAGA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231532 representing NM_030114

Red=Cloning site Green=Tags(s)

MLCWGNASYQLGLGGIDEEIVLEPRRSDFFVNKKVRDVGCLRHTVFVLDGTVYTCGCNDLGLGHEK
 SRKKPEQVVALDAQNIVAVACGEAHTLALNDKQVYAWGLDSDGQLGLQGSEECIRVPRNIKSLSDIQIV
 QVACGYHSLALSKASEVFCWGNQKYGLGLGIDCQKQTSPLIKSLLGIPFMQVAAGGAHSFVLTLSGA
 IFGWGRNKFQGLGLNDENDRYVPNLLKSLRSQKIVYICCGEDHTAALKEGGVFTFGAGGYQLGHNSTS
 HEINPRKVFELMGSIVTQVACGRQHTSAFVPSSGRIYSFGLGGNGQLGTGSTSNRKSPFTVKGWVSYNG
 QCPQDIGSEDFYCVKRIFFSGGDQSFSHYSPQNCPPDDFRCDPSKQIWTVNEALIQKWSYPSGRFPV
 EIANEIDGTFSSSGCLNGSFLAISNDHYRTGTRFSGVDMNAARLLFHKLIQPDHPQISQVVAASLEKNL
 IPKLTSSLPDVEALRFYLTLPCEPLMSDCNFTTIAIPFGTALVNLEKAPLKVLENWWSVLEPPLFKIV
 ELFKEVVHLLKLYKIGIPPSERRIFNSFLHTALKVLEILHRVNEKTGQLIQYDKFYIHEVQELIDIRND
 YINWVQQAYGVDVSHGVTEADIPVTICTYPFVFAQAKTLLQTDVAVLQMQMAIDQHRQNVSSFLP
 VIESVNPCLILVVRRENIVGDAEVLKTKNIDYKPLKVIKVFVEDAVDAGGVRKEFFLLIMRELLDPKY
 GMFRYYEDSRLIWFSDKTFEDSDLFHLIGVICGLAIYNFTIVDLHFPLALYKLLKRPKSLDDLKELMPA
 VGRSMQQLLDYPEDDIEETFCLNFTITVENFGATEVKELVLNGADTAVNRQNRQEFVDAYVDYIFNKSVA
 SLFADFAGFHKVCGGKVLVLLFQPNELQAMVIGNTYDWELEKNTYKGEYWADHPTIKIFWEVHELP
 LEKKKQFLFLTGSDRIPILGKSLKLVIQSTGGGESYLPVSHTCFNLLDLPKYTEKETLRCKLIQAIDH
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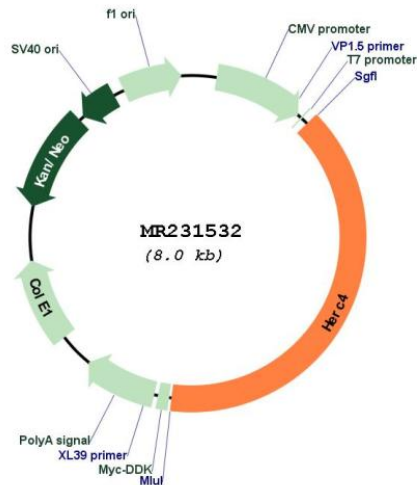
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_030114

ORF Size: 3171 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:	<ol style="list-style-type: none">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:	<u>NM_030114.2</u> , <u>NP_084390.1</u>
RefSeq Size:	4043 bp
RefSeq ORF:	3174 bp
Locus ID:	67345
UniProt ID:	<u>Q6PAV2</u>
Cytogenetics:	10 B4
MW:	118.9 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]