

Product datasheet for **MC229321**

Herc4 (NM_030114) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Herc4 (NM_030114) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Herc4
Synonyms:	1700056O17Rik; 4921531D01Rik; 9530080M15Rik; mKIAA1593
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229321 representing NM_030114 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTTGTGCTGGGCAATGCATCCTATGGACAAGTGGTGGGAGGAATTGATGAAGAAATGTACTAG
AGCCCAGGAGAAGTGACTTTTTCGTGAACAAAAGGTCCGAGATGTAGGCTGTGGACTCAGGCACACTGT
GTTTGTCTGGATGATGGGACTGTGTACACATGTGGATGTAATGATCTAGGACAGCTAGGTCATGAAAAG
TCCAGAAAAGAAACCAGAGCAGGTTGTTGCCCTGGATGCCAGAATATCGTAGCTGTTGCGTGTGGAGAAG
CTCACACGTTAGCGCTGAATGACAAGGGCCAGGTGTATGCTTGGGGTCTCGACTCTGACGGACAGCTTGG
CCTACAGGGATCAGAGGAATGTATCAGAGTACCCAGAAATATTAAGTCTTTCCGGATATCCAGATAGTA
CAGGTTGCGTGTGGTTACTATCATTTCGCTTGCACCTTTCTAAAGCAAGTGAAGTTTTCTGTTGGGACAGA
ATAAATATGGCCAGCTGGGTCTAGGCATTGATTGTCAAAGCAAACCTTACCACAGCTGATTAAGTCTTT
GCTTGAATACCATTCATGCAAGTCGCAGCAGGAGGCCATAGTTTTGTACTCACCTTTCCGGAGCT
ATCTTTGGATGGGACGTAACAAATTTGGTCAGCTAGGTCTTAATGATGAAAATGATAGGTATGTTCCCTA
ATTTACTAAAGTCACTAAGATCTCAGAAAATAGTTTATATTTGTTGCGGAGAAGATCATACTGCTGCATT
AACCAAGGAAGGTGGAGTGTACCTTTGGAGCTGGGGCTATGGCCAGCTGGGTGATAATCTACCAT
CATGAGATAAATCCCAGGAAAGTTTTTGAACTCATGGGAAGCATTGTTACTCAGGTCGCTTGTGGAAGGC
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GGGAACTGGTTCAACCAGCAACAGAAAAGCCCTTTCACTGTAAGGAAACTGGTTTTCTATAATGGA
CAGTGTCCACAAGATATTGGTTCTGAAGACTATTTCTGTGTCAAAGAATTTTCTCAGGTGGAGATCAA
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GCAATGACGATCACTATAGAACAGGTACCAGATTTTTCAGGGTTGATATGAACGCTGCTAGACTCTTATT
CCACAACTTATACAACCTGATCATCTCAGATATCTCAGCAGGTGGCAGCTAGTTTGGAAAAGAATCTA
ATCCCTAAACTGACTAGTTCCCTACCTGATGTTGAAGCTCTGAGGTTTTATCTTACCCTGCCAGAGTGTC



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CCCTGATGAGTGACTGCAACAATTTACAACAATAGCAATCCCCTTTGGTACAGCTCTTGTGAACCTAGA
AAAGGCACCCTGAAAGTACTTGAAAAGTGGTGGTCAGTACTTGAACCTCCACTATTCCTCAAGATAGTA
GAACTTTTTAAGGAAGTTGTGGTACATCTTTTAAAAGTCTACAAGATCGGCATCCCCCTTCTGAAAGAA
GAATTTTCAACAGTTTTCTTACATCCGCATTAAAGGTTTTAGAAAATTTGCATAGGGTAAATGAGAAAAC
AGGACAACCTATTCAATATGACAAGTTTTACATCCATGAAGTCCAAGAGCTGATAGACATAAGGAATGAC
TATATCAACTGGTCCAGCAGCAAGCCTATGGAGTGGATGTCAGCCATGGAGTAACTGAGTTGGCAGATA
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TTACGATCACAGTTGAGAACTTCGGTGCACAGAAGTAAAAGAGCTGTTCTGAACGGGGCAGACTGC
TGTTAATAGACAGAATCGGCAGGAGTTTGTGATGCCTATGTGGATTACATATTCATAAAATCAGTGGCA
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CTAGAGAAGAAGAAACAATTTCTATTATTTTTGACAGGTAGTGATCGGATTCCTTCTGGTATGAAGA
GTCTGAACTAGTCATCCAGTCAACAGGAGGTGGTGAGAGCTATCTCCCGTTTCCCATACCTGTTTTAA
TCTTCTAGATCTCCAAAATATACAGAGAAAAGAACCTCCGATGTAAGTATCAAGCTATTGATCAC
AATGAAGGCTTCAGTTTAATATGA

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ACGCGTACGCGGCCGCTCGAGCAGAAAAGTCACTCAGAAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_030114
- Insert Size:** 3174 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_030114.2](#), [NP_084390.1](#)

RefSeq Size: 4043 bp

RefSeq ORF: 3174 bp

Locus ID: 67345

UniProt ID: [Q6PAV2](#)

Cytogenetics: 10 B4

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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).