

Product datasheet for **RN209008**

Herc4 (NM_001012074) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Herc4 (NM_001012074) Rat Untagged Clone
Tag: Tag Free
Symbol: Herc4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN209008 representing NM_001012074
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGTGCTGGGAAACGCATCCTATGGACAAGTGGTGGGTTGGGTTGATGAAGAAATGTACTAG
AGCCCAGGAAAAGTGACTTTTTTCGTAATAAAAAAGGTCCGAGATGTAGGATGTGGACTCAGACATACTGT
GTTTCGCTCTGGACGACGGAAGTGTACACATGTGGATGTAATGATCTAGGACAGCTAGGTCATGAAAAG
TCCAGAAAGAAAACAGAGCAGGTTGTTGCCCTGGATGCCAAAATATCGTAGCTGTTTCATGTGGAGAAG
CTCATACATTAGCACTTAATGACAAGGGCCAGGTGTATGCTTGGGGTCTCGACTCTGATGGACAGCTTGG
CCTGCAAGGATCAGAGGAATGTATCAGAGTACCCAGAAATATTAAGTCTTTTCGGACATCCAGATAGTA
CAGGTTGCATGTGGTTACTATCATTCACTTGCCTTTCTAAAGCAAGTGAAGTTTTCTGTTGGGACAGA
ATAAATATGGCCAGCTCGGTCTCGGCATTGAATGTCAAAGCAAACCTCACCACAGCTGATTAAGTCTTT
GCTTGAATACCATTCATGCAAGTCGCAGCAGGAGGCCATAGTTTTGTACTCACCTTTCTGGAGCT
ATCTTTGGATGGGACGTAACAAATTTGGTCAGCTAGGCTTAATGATGAGAACGATAGGTATGTTCTCTA
ATTTACTAAAGTCACTAAGATCTCAGAAAATAGTTTATATTTGTTGCCGAGAAGATCATACTGCTGCATT
AACCAAGGAAGGTGGAGTGTACCTTTGGAGCTGGAGGCTATGGCCAGCTGGGTATAATTCTACCACT
CATGAAATAAACCCAGGAAAGTGTGAGCTTATGGGAAGCATTGTTACTCAAATGCTTGTGGAAAGGC
AGCATACTTCTGCATTTGTTCTCTTCAGGACGAATTTACTCCTTCGGTCTCGGTGGTAATGGGACGTT
GGGAAGTGGTTCAACAAGCAACAGAAAAGCCCTTTCACTGTAAGGAAAGTGGTTTTCTATAATGGA
CAATGTCCACAAGATATGGTCTGAAGACTATTTCTGTGTCAAAAAGAAATTTCTCAGGTGGAGATCAA
GCTTTTACATTACTCTAGTCTCAGAGCTGTGGACCTCCAGATGACTTTAGACGCTCTGACCCTTCAA
GCAGATCTGGACAGTGAATGAAGCTCTGATTCAGAAATGGCTCAGCTACCCCTCTGGAAGGTTCCCTGTG
GAGATGCCAATGAGATAGATGGAACATTTCTCGTCTGGTGCCTAAATGGAAGTTTTCTGGCTGTTA
GCAATGATGATCACTATAGAACAGGCACAGATTTTCAGGGGTGCACATGAATGCCGCTAGACTCTTATT
CCACAGACTCATACAGCTGACCACCCGAGATATCTCAGCAGGTGGCAGCTAGTTTGGAAAAGAACCTT
ATCCCTAAAGTACTAGTTCTTACCTGATGTTGAAGCTTTGAGGTTTTATCTTACCCTGCCAGAGTGCC
CCCTGATGAGTGACTGCAACAATTTCAACCATAGCAATCCCTTTGGCACAGCCCTGTGAACCTAGA
AAAAGCACCAGTAAAGTACTTGAAGTGGTGGTCAGTACTTGAACCTCCACTATTCTCAAGATAGTA



GAACTTTTAAAGGAAGTTGTGGTACATCTTTTGAAGCTCTACAAGATCGGCATTCCCCCTTCTGAAAGAA
 GAATTTTCAACAGTTTTCTTCATACCGCATTAAAGGTTTTAGAAAATTACATAGGGTAAATGAGAGAAC
 AGGACAACTTATACAGTACGACAAGTTTTACATACATGAAGTCCAAGAGCTGATAGACATAAGGAATGAC
 TATATCAACTGGGTCCAGCAGCAAGCCTATGGAGTGGATGTCAGCCATGGAATACTGAGTTGGCAGATA
 TCCCTGTGACAAATTTGTACATATCCATTTGTATTTGATGCCAGGCAAAAACACTCTGTACAGACAGA
 CGCAGTCTTGAGATGCAGATGGCTATTGACCAGGCCATAGGCAGAATGTCTCCTCTCTTTTTCTGCCA
 GTGATTGAGTCTGTGAATCCTTGCTTAATCTGGTTGTTTCGAGAGAAAATATTGTAGGAGATGCAATGG
 AAGTCTCAGGAAAACCAAGAATATAGATTATAAAAAGCCACTCAAAGTTATTTGTTGGAGAAGATGC
 GTTGATGCTGGAGGTGTACGCAAGAATTTTTCTTGCTCATCATGAGGGAATTATTGGATCCTAAATAT
 GGCATGTTTCGATATTATGAAGATTCCAGGCTATTTGGTTTTTCAGATAAGACATTTGAAGACAGTGATT
 TGTCCACTTAATTGGTGTATCTGTGGATTAGCAATTTATAATTTTACTATTGTGGACCTCCACTTCCC
 TTTGGCTTTATATAAGAAGCTACTGAAAAGGAAGCCATCCCTGGATGATCTGAAAGAGCTGATGCCAGAT
 GTAGGGAGAAGCATGCAACAATTGCTGGACTACCCGGAGGACGATATAGAGGAAACATTTTGTCTAAACT
 TTACGATCACAGTTGAAAATTTGGTGCACAGAAGTAAAGAGCTGGTCTGAATGGTGCAGACACCGC
 TGTTAACAAACAGAATCGCAGGAGTTTGTGATGCCTATGTGGATTACATATTCATAAATCAGTGGCA
 TCTTTATTTGATGCTTCCATGCCGGCTTTCATAAGGTCTGTGGAGGAAAAGTTCTTCTGCTCTCCAGC
 CCAATGAATTACAAGCTATGGTTATTGGGAATACAAATTATGATTGAAAAGAACTGGAGAAGAATACAGA
 ATACAAAGGAGAGTATTGGGCAGAACATCCCACGATAAAAATTTTTGGGAAGTATTTTCATGAATTACCA
 CTAGAAAAGAAGAAACAATTCCTATTATTTTTGACAGGTAGTGATCGAATTCCTATTCTTGGTATGAAGA
 GTCTGAAACTAGTCATCCAGTCAACAGGAGGTGGTGAGAGCTATCTCCCGGTTTCCCATACCTGTTTTAA
 TCTTCTAGATCTCCAAAATATACAGAGAAAGAAACCCTACGATGAAACTGATCCAAGCTATTGATCAC
 AATGAAGGCTTCAGTTTAATA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001012074
- 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).
- 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_001012074.1, NP_001012074.1
- RefSeq Size:** 3850 bp
- RefSeq ORF:** 3174 bp

Locus ID: 309758

UniProt ID: [Q5PQN1](#)

Cytogenetics: 20p11

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]