

## Product datasheet for RC211865

### HERC4 (NM\_022079) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | HERC4 (NM_022079) Human Tagged ORF Clone                                    |
| Tag:                      | Myc-DDK   |
| Symbol:                   | HERC4   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >RC211865 representing NM_022079<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGTGCTGGGAAATGCATCCTTTGGGCAGCTAGGTTTGGGTGGAATTGATGAAGAAATTGACTAG  
AGCCAGAAAAAGTGACTTCTTTATAAAATAAAGGGTCCGAGATGTAGGATGTGGACTCAGACATACTGT  
GTTTGTCTGGATGATGGAACAGTGTACACATGTGGATGTAATGATCTAGGACAGCTAGGTCATGAAAA  
TCCAGAAAGAAACCAGAGCAGGTTGTTGCCCTGGATGCCAAAAATTGTAGCTGTTTCATGTGGAGAAG  
CTCATACGTTAGCGCTAAATGACAAAGCCAGGTGTATGCTTGGGTCTCGATTCTGATGGACAGCTTGG  
CCTGGTAGGATCAGAGGAATGCATCAGAGTACCCAGAAATATTAAGTTTGTGTCAGATATCCAGATTGTA  
CAGGTTGCTTGTGGTTACTATCATTCACTTGCACCTTTCTAAAGCAAGTGAAGTCTTCTGTTGGGACAGA  
ATAAATATGGCCAATTGGGTTTAGGTAAGTACTGACTGTAAAAAGCAAACCTCACCGCAGCTGCTTAAGTCTTT  
GCTTGGAAATCCCTTTTCATGCAAGTTGCAGCAGGAGGAGCCATAGTTTTGTACTCACCTTTCTGGAGCT  
ATCTTTGGATGGGACGCAACAAGTTTGGTCAGCTAGGCTTAATGATGAAAATGATAGGTATGTTCTTA  
ATTTACTAAAGTCACTAAGATCTCAGAAAATAGTTTATTTTGTGTGGAGAAGATCATACTGCTGCTCT  
AACCAAGGAAGGTGGAGTGTACTTTTGGAGCTGGAGGGTATGGTCAGTTGGCCATAATTCTACCACT  
CATGAAATAAACCAAGGAAAGTTTTTGAACCTATGGGAAGCATTGTCAGTGAATGCTTGTGGACGGC  
AGCACACTTCTGCTTTTGTCTTCATCAGGACGAATTTACTCTTTTGGGCTTGGTGAATGGGACGCT  
GGGAACCGGTTCAACAAGCAACAGGAAAAGCCCTTTACTGTAAAAGGAAATTGGTACCCCTATAATGGG  
CAGTGTCTACCAGATATTGATTCTGAAGAATATTTCTGTGTAAAAAGAATTTTCTCAGGGGGAGATCAAA  
GCTTTTACATTAAGTCTAGTCCCGAAGTGTGGGCCACCCAGATGACTTCAGATGTCCCAATCCGACAAA  
GCAGATCTGGACAGTGAATGAAGCTCAATTCAGAAATGGCTGAGCTATCCTTCTGGAAGTTTCTCTGTG  
GAGATAGCCAATGAGATAGATGGAACGTTTTCTCCTCTGGTGCCTAAATGGAAGTTTTTGTAGCTGTTA  
GCAATGATGATCACTATAGAACAGGTACCAGATTTTTCAGGGTTGATATGAATGCTGCTAGGCTTTTATT  
CCACAACTTATACAACCTGATCATCCGAGATATCTCAGCAGGTGCCAGCTAGTTTGGAAAAGAATCTT  
ATTCTAAACTGACTAGCTCCTTACCTGATGTTGAAGCATTGAGGTTTTTACTTACTCTACCAGAATGTC  
CCCTGATGAGTGATTCCAACAATTTCAACAATAGCAATTCCTTTGGTACAGCTCTTGTGAACCTAGA



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AAAGGCACCACTGAAAGTACTTGAAAACCTGGTGGTCAGTACTTGAACCTCCACTATTCCTCAAGATAGTA  
 GAACTTTTTAAGGAAGTTGTGGTACATCTTTTAAAACCTACAAGATCGGTATTCCTCCCTTCTGAAAAGAA  
 GAATTTTCAACAGTTTTCTTCACTACTGCATTAAGGTTTTAGAAAATACTACATAGGGTAAATGAGAAAAT  
 GGGACAGATTATACAGTATGATAAATTTATATACATGAAGTACAAGAATTGATAGACATAAGAAAATGAT  
 TATATCAACTGGGTCCAACAGCAGGCCTATGGAATGGATGTCAACCATGGATTAAGTACTGAGTTGGCAGATA  
 TCCCTGTTACAATCTGTACATATCCATTTGATTTGATGCCCAAGCAAAAACACTCTGTTACAGACCGA  
 TGCAGTCTTACAGATGCAGATGGCTATTGATCAGGCCACAGGCAGAATGTCTCCTCTCTTTTTCTCCCA  
 GTGATGAATCTGTGAATCCCTGCTTAATTCTAGTGGTGGTAGAGAAAATATTGTAGGAGATGCAATGG  
 AAGTCCTTAGGAAAACAAAGAACATAGATTACAAGAAGCCACTCAAGGTTATATTTGTTGGAGAAGATGC  
 TGTGGATGCAGGAGGGGTGCGCAAAGAATTTTTCTTGCTCATCATGAGGGAATTATTGGATCCTAAATAC  
 GGCATGTTTAGGTATTATGAAGATCCAGGCTCATTTGGTTTTCTGATAAGACATTTGAAGACAGTGATT  
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 TTTGGCTTATATAAGAACTACTGAAAAGAAGCCATCCTTGGATGATTTGAAAGAATAATGCCTGAT  
 GTTGGGAGAAGCATGCAACAGTTACTGGATTATCCAGAAGATGACATAGAGGAAACATTTTGTCTTAATT  
 TTACGATCACAGTTGAAAACCTTTGGTGAACAGAAGTGAAGAGCTGGTCTAAATGGTGCAGACACAGC  
 TGTTAACAAACAAAATCGCAAGAGTTTGTGCGATGCTTATGTGGATTACATATCCAATAAATCAGTGGCT  
 TCCTTATTTGATGCTTTTCATGCGGGCTTTCATAAGGTCTGTGGAGGAAAAGTCTTCTGCTCTTTCAGC  
 CTAATGAACTACAAGCAATGGTCATTGGAAATACAAATATGATTGGAAGGAACTGGAAAAGAATACAGA  
 ATACAAAGGGGAATATTGGGCAGAACATCCTACGATAAAAATTTTTGGGAAGTATTTCCAGGAATACCA  
 TTGGAAAAGAAGAAACAGTTTCTGTTATTTTGGACAGGTAGTGATCGCATTCTTCTTGGTATGAAGA  
 GTCTGAACTAGTCATCCAGTCCACAGGAGGTGGTGGAGGATATCTCCAGTTTCCCATACTTGTTTTAA  
 TCTTCTGGATCTTCCAAAATACAGAAAAGAAAACCTACGCTCTAACTGATCCAAGCTATTGATCAC  
 AATGAAGGCTTCAGTTTAATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC211865 representing NM\_022079  
 Red=Cloning site Green=Tags(s)

MLCWGNASFGQLGLGGIDEEIVLEPRKSDFFINKRVRDVGCGLRHTVFVLDGTVYTCGCNDLQGLGHEK  
 SRKKPEQVVALDAQNIVAVSCGEAHTLALNDKQVYAWGLDSDGQLGLVGSEECIRVPRNIKSLSDIQIV  
 QVACGYHSLALSKASEVFCWQNKYQGLGLGTDCKKQTSPLKSLGIPFMQVAAGGAHSFVLTLSGA  
 IFGWGRNFKGQLGLNDENDRYVPLNLLSLRSQKIVYICCGEDHTAALKEGGVFTFAGGYGQLGHNSTS  
 HEINPRKVFELMGSIVTEIACGRQHTSAFVPSSGRIYSFGLGGNGQLGTGSTSNRKSPTFKGNWYPYNG  
 QCLPDIDSEYFCVKRIFSGGDQSFSHYSSPQNCGPPDDFRCPNPTKQIWTVNEALIQKWSYPSGRFPV  
 EIANEIDGTFSSSGCLNGSFLAVSNDHYRTGTRFSGVDMNAARLLFHKLIQPDHPQISQQAASLEKNL  
 IPKLTSSLPDVEALRFYLTLPCEPLMSDSNNFTTIAIPFGTALVNLEKAPLKVLENWWSVLEPPLFLKIV  
 ELFKEVVVHLLKLYKIGIPPSERRIFNSFLHTALKVLEILHRVNEKMGQIIQYDKFYIHEVQELIDIRND  
 YINWVQQAYGMDVNHGLTELADIPVTICTYPFVFDQAQKTTLLQTDVAVLQMQMAIDQAHQRNVSSFLP  
 VIESVNPCLILVVRRENIYVGDAMEVLRKTKNIDYKPLKIVFVGEDAVIDAGGVRKEFFLLIMRELLDPKY  
 GMFRYYEDSRLIWFSDKTFEDSDLFHLIGVICGLAIYNCTIVDLHFPLALYKLLKKKPSLDDLKELMPD  
 VGRSMQQLLDYPEDDIEETFCLNFTITVENFGATEVKELVLNGADAVNKNRQEFVDAVYDYIFNKSVA  
 SLFDAFHAGFHKVCGGKVLVLLFQPNELQAMVIGNTYDWEKLEKNTYKGEYWAHPTIKIFWEVHELP  
 LEKKKQFLFLTGSDRIPILGMSLKLVIQSTGGGEEYLPVSHTCFNLLDLPKYTEKETLRSKLIQAIDH  
 NEGFSLI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8025\\_b07.zip](https://cdn.origene.com/chromatograms/mk8025_b07.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_022079

**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:**

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

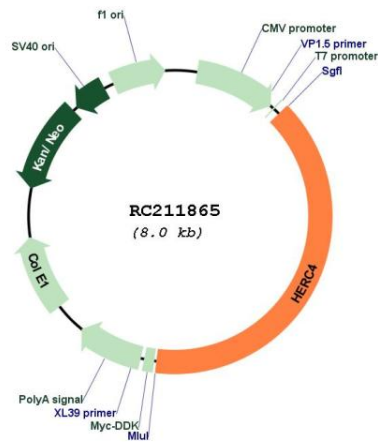
**RefSeq:** [NM\\_022079.3](#)

**RefSeq Size:** 4445 bp

**RefSeq ORF:** 3174 bp

**Locus ID:** 26091  
**UniProt ID:** [Q5GLZ8](#)  
**Cytogenetics:** 10q21.3  
**Protein Families:** Druggable Genome  
**Protein Pathways:** Ubiquitin mediated proteolysis  
**MW:** 118.4 kDa  
**Gene Summary:** HERC4 belongs to the HERC family of ubiquitin ligases, all of which contain a HECT domain and at least 1 RCC1 (MIM 179710)-like domain (RLD). The 350-amino acid HECT domain is predicted to catalyze the formation of a thioester with ubiquitin before transferring it to a substrate, and the RLD is predicted to act as a guanine nucleotide exchange factor for small G proteins (Hochrainer et al., 2005 [PubMed 15676274]).[supplied by OMIM, Mar 2008]

**Product images:**



Circular map for RC211865