

## Product datasheet for **RC239850**

### **HERC4 (NM\_001278185) Human Tagged ORF Clone**

#### **Product data:**

|                    |   |
|--------------------|---|
| Product Type:      | Expression Plasmids                         |
| Product Name:      | HERC4 (NM_001278185) Human Tagged ORF Clone |
| Tag:               | Myc-DDK                                     |
| Symbol:            | HERC4                                       |
| Vector:            | pCMV6-Entry (PS100001)                      |
| E. coli Selection: | Kanamycin (25 ug/mL)                        |
| Cell Selection:    | Neomycin                                    |



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**ORF Nucleotide  
Sequence:**

>RC239850 representing NM\_001278185  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTGTGCTGGGAAATGCATCCTTTGGCGAGCTAGGTTTGGGTGGAATTGATGAAGAAATGTACTAG  
 AGCCAGAAAAAGTGACTTCTTTATAAATAAAAGGGTCCGAGATGTAGGATGTGGACTCAGACATACTGT  
 GTTTGTTCTGGATGATGGAACAGTGTACACATGTGGATGTAATGATCTAGGACAGCTAGGTCATGAAAA  
 TCCAGAAAGAAACCAGAGCAGGTTGTTGCCCTGGATGCCAAAAATATTGTAGCTGTTTCTATGTGGAGAAG  
 CTCATACGTTAGCGCTAAATGACAAAGGCCAGGTGTATGCTTGGGGTCTCGATTCTGATGGACAGCTTGG  
 CCTGTTAGGATCAGAGGAATGCATCAGAGTACCCAGAAATATTAAGGTTTGTGAGATATCCAGATTGTA  
 CAGTTGCTTGTGGTTACTATCATTCACTTGCCTTTCTAAAGCAAGTGAAGTCTTCTGTTGGGGACAGA  
 ATAAATATGGCCAATTGGGTTTAGGTACTGACTGTAAAAAGCAAACCTCACCGCAGCTGCTTAAGTCTTT  
 GCTTGGAAATCCCTTTCATGCAAGTTGCAGCAGGAGGAGCCATAGTTTTGTACTACCCTTCTGGAGCT  
 ATCTTTGGATGGGACGCAACAAGTTTGGTCAGCTAGGCTTAATGATGAAAATGATAGGATATGTTCTTA  
 ATTTACTAAAGTCACTAAGATCTCAGAAAAATAGTTTATATTTGTTGTGGAGAAGATCATACTGCTGCTCT  
 AACCAAGGAAGGTGGAGTGTACTTTTGGAGCTGGAGGGTATGGTCAGTTGGGCCATAATTCTACCAGT  
 CATGAAATAAACCAAGGAAAGTTTTGAACCTTATGGGAAGCATTGCTACTGAGATTGCTTGTGGACGGC  
 AGCACACTTCTGCTTTTGTTCCTTATCAGGACGAATTTACTCTTTTGGGCTTGGTGGTAAATGGGCAGCT  
 GGGAACCGGTTCAACAAGCAACAGGAAAAGCCCTTTACTGTAAAAGGAAATTTGTACCCCTATAATGGG  
 CAGTGTCTACCAGATATTGATTTCTGAAGAATATTTCTGTGTAAAAGAATTTTCTCAGGGGAGATCAAA  
 GCTTTTTCACATTACTCTAGTCCCAGAACTGTGGGCCACCAGTACTTCCAGATGTCCTCAATCCGACAAA  
 GCAGATCTGGACAGTGAATGAAGCTCTAATTGAGAAATGGCTGAGCTATCCTTCTGGAAGTTCCTGTG  
 GAGATAGCCAATGAGATAGATGGAACGTTTTCTCCTCTGGTTGCCTAAATGGAAGTTTTTTAGCTGTTA  
 GCAATGATGATCACTATAGAACAGGTACCAGATTTTCCAGGGTTGATATGAATGCTGCTAGGCTTTTATT  
 CCACAACTTATACAACCTGATCATCCGAGATATCTCAGCAGGTGGCAGCTAGTTTGGAAAAGAATCTT  
 ATTCTAAACTGACTAGCTCCTTACCTGATGTTGAAGCATTGAGGTTTTTCTTACTCTACCAGAATGTC  
 CCCTGATGAGTGATTCCAACAATTTCAACAATAGCAATCCCTTTGGTACAGCTCTTGTGAACCTAGA  
 AAAGGCACCCTGAAAGTACTTGAAGTGGTGGTCACTTGAACCTCCACTATCTCAAGATAGTA  
 GAACCTTTTAAGGAAGTTGTGGTACATCTTTTGAAGTCTACAAGATCGGATTTCCCTTCTGAAAGAA  
 GAATTTTCAACAGTTTTCTTCACTGCAATAAAGGTTTTAGAAAATACTACATAGGGTAAATGAGAAAAT  
 GGGACAGATTATACAGTATGATAAATTTATATACATGAAGTACAAGAATTGATAGACATAAGAAAATGAT  
 TATATCAACTGGGTCCAACAGCAGGCCTATGGAATGGATGTCAACCATGGATTAAGTGAAGTTGGCAGATA  
 TCCCTGTTACAATCTGTACATATCCATTTGATTTGATGCCCAAGCAAAAATACTCTGTTACAGACCGA  
 TGCAGTCTTACAGATGCAGATGGCTATTGATCAGGCCACAGGCAGAAATGTCTCCTCTCTTTTCTCCCA  
 GTGATTGAATCTGTGAATCCCTGCTTAATTCTAGTGGTGGTGAAGAAAATTTGTAGGAGATGCAATGG  
 AAGTCTTAGGAAAACAAAGAACATAGATTACAAGAAGCCACTCAAGGTTATATTTGTTGGAGAAGATGC  
 TGTGGATGCAGGAGGGGTGCGCAAAGAATTTTCTTGTCTCATGAGGGAATTATTGGATCTCAATAAT  
 GGCATGTTTAGGTATTATGAAGATCCAGGCTCATTGGTTTTCTGATAAGATCACAGTTGAAAACCTTTG  
 GTGCAACAGAAGTGAAGAGCTGGTTCTAAATGGTGCAGACACAGCTGTTAACAACAAAATCGGCAAGA  
 GTTTGTCGATGCTTATGTGGATTACATATTCAATAAATCAGTGGCTTCTTATTTGATGCTTTTCTATGCG  
 GGCTTTCATAAGGTCTGTGGAGGAAAAGTCTTCTGCTTTTCCAGCTAATGAACACAAGCAATGGTCA  
 TTGAAAATACAAATTATGATTGGAAGGAACTGGAAAAGAATACAGAATACAAAGGGGAATATTGGGCAGA  
 ACATCCTACGATAAAAAATTTTTGGGAAGTATTTACGAATTACCATTGGAAAAGAAGAAACAGTTTCTG  
 TTATTTTTGACAGGTAGTATCGCATTCTTCTTGGTATGAAGAGTCTGAAACTAGTCATCCAGTCCA  
 CAGGAGGTGGTGAAGGATATCTCCAGTTTCCCATCTTGTATTAATCTTCTGGATCTTCAAAAATATAC  
 AGAAAAAGAACTCTACGCTCTAACTGATCCAAGCTATTGATACAATGAAGGCTTCAAGTTAATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239850 representing NM\_001278185  
 Red=Cloning site Green=Tags(s)

MLCWGNASFGQLGLGGIDEEIVLEPRKSDFEINKRVRDVGCLRHTVFVLDGGTVYTCGCNDLGGQLGHEK  
 SRKKPEQVVALDAQNIVAVSCGEAHTLALNDKGQVYAWGLDSDGQLGLVGSEECIRVPRNIKSLSDIQIV  
 QVACGYHSLALSKASEVFCWQNKYQGLGLGTDCKKQTSPLLLKSLGIPFMQVAAGGAHSFVLTLSGA  
 IFGWGRNKFQQLGLNDENDRYVPNLLKSLRSQKIVYICCGEDHTAALTKEGGVFTFGAGGYGQLGHNSTS  
 HEINPRKVFELMGSIVTEIACGRQHTSAFVPSGGRIYSFGLGGNGQLGTGSTSNRKSPFTVKGNWYPYNG  
 QCLPDIDSEEFVCKRIFSGGDQSFVSHYSSPQNCGPPDDFRCNPNTKQIWTVNEALIQKWSYPSGRFPV  
 EIANEIDGTFSSSGCLNGSFLAVSNDDHYRTGTRFSGVDMNAARLLFHKLIQPDHPQISQVVAASLEKNL  
 IPKLTSSLPDVEALRFYLTLPCEPLMSDSNNFTTIAIPFGTALVNLEKAPLKVLENWWSVLEPPLFLKIV  
 ELFKEVVHLLKLYKIGIPPERRIFNSFLHTALKVLEILHRVNEKMGQIIQYDKFYIHEVQELIDIRND  
 YINWVQQQAYGMDVNHGLTELADIPVTICTYPFVFDAAKTTLLQTDVAVLQMQMAIDQHRQNVSSFLP  
 VIESVNPCLILVVRRENI VGDAMEVLRKTKNIDYKKPLKVI FVGEDA VDAGGVRKEFFLLIMRELLDPKY  
 GMFRYYEDSRLIWFSDKITVENFGATEVKELVLNGADTAVNKQNRQEFVDAYVDYIFNKSVASLFDFAHA  
 GFHKVCGGKVL LLLFQPNELQAMVIGNTNYDWKELEKNTYKGEYWAHPHTIKIFWEVHELPLEKKKQFL  
 LFLTGSDRIPILGMKSLKLVIQSTGGGEEYLPVSHTCFNLLDLPKYTEKETLRSKLIQAIHNEGFSLI

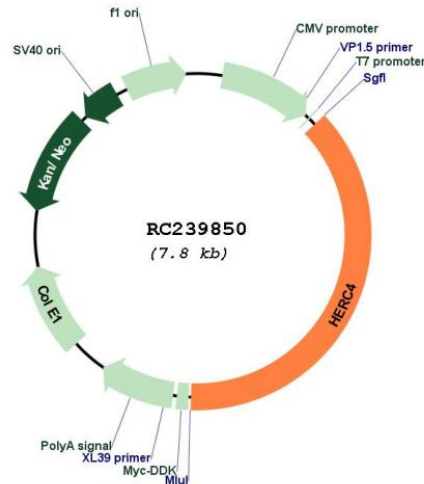
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001278185

**ORF Size:** 2937 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\\_001278185.2](#)

**RefSeq Size:** 4297 bp

**RefSeq ORF:** 2940 bp

**Locus ID:** 26091

**UniProt ID:** [Q5GLZ8](#)

**Cytogenetics:** 10q21.3

**Protein Families:** Druggable Genome

**Protein Pathways:** Ubiquitin mediated proteolysis

**MW:** 110 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]