

Product datasheet for **SC315116**

HERC4 (BC039600) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HERC4 (BC039600) Human Untagged Clone
Tag:	Tag Free
Symbol:	HERC4
Synonyms:	DKFZP564G092
Vector:	<u>pCMV6 series</u>

Fully Sequenced ORF: >NCBI ORF sequence for BC039600, the custom clone sequence may differ by one or more nucleotides

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ATGTTGTGCTGGGAAATGCATCCTTTGGGCAGCTAGGTTTGGGTGGAATTGATGAAGAA
ATTGTA TAGAGCCAGAAAAAGTGACTTCTTTATAAATAAAAGGGTCCGAGATGTAGGA
TGTGGACTCAGACATACTGTGTTTGTCTGGATGATGGAACAGGTACACATGTGGATGT
AATGATCTAGGACAGCTAGGTCATGAAAAATCCAGAAAGAAACCAGAGCAGGTTGTTGCC
CTGGATGCCAAAATATTGTAGCTGTTTCATGTGGAGAAGCTCATACGTTAGCGCTAAAT
GACAAAGGCCAGGTGTATGCTTGGGCTCGATTCTGATGGACAGCTTGGCCTGGTAGGA
TCAGAGGAATGCATCAGAGTACCCAGAAATATTAAGGTTTGTGATATCCAGATTGTA
CAGGTTGCTTGTGGTTACTATCATTCACTTGCACCTTCTAAAGCAAGTGAAGTCTTCTGT
TGGGGACAGAATAAATATGGCCAATTGGGTTTAGGTA CTGACTGTAAAAAGCAAACCTTCA
CCGCAGCTGCTTAAGTCTTTGCTTGAATCCCTTTTCATGCAAGTTGCAGCAGGAGGAGCC
CATAGTTTTGTA CTACCCCTTTCTGGAGCTATCTTTGGATGGGGACGCAACAAGTTTGGT
CAGCTAGGTCTTAATGATGAAAAATGATAGGTATGTTTCTAATTTACTAAAGTCACTAAGA
TCTCAGAAAATAGTTTATATTTGTTGTGGAGAAGATCATACTGCTGCTCTAACCAAGGAA
GGTGGAGTGTTTACTTTTGGAGCTGGAGGTATGGTCAGTTGGCCATAATTCTACCAAGT
CATGAAAATAACCCAAGGAAAGTTTTTGAACCTATGGAAGCATTGCTCACTGAGATTGCT
TGTGGACGGCAGCACACTTCTGCTTTTGTCTTTCATCAGGACGAATTTACTCTTTTGGG
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GTAAAAGGAAATGGTACCCCTATAATGGGCAGTGTCTACCAGATATTGATTCTGAAGAA
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CCCCAGA ACTGTGGCCACCAGATGACTTCAGATGTCCAATCCGACAAAGCAGATCTGG
ACAGTGAATGAAGCTCTAATTCAGAAATGGCTGAGCTATCCTTCTGGAAGTTTCTCTGTG
GAGATAGCCAATGAGATAGATGGAACGTTTTCTCCTCTGGTTGCCTAAATGGAAGTTTT
TTAGCTGTTAGCAATGATGATCACTATAGAACAGGTACCAGATTTTTCAGGGGTTGATATG
AATGCTGCTAGGCTTTTATCCACAAACTATACAACCTGATCATCCGCAGATATCTCAG
CAGGTGGCAGCTAGTTTGGAAAAGAAATCTTATTCTAAACTGACTAGCTCCTTACCTGAT
GTTGAAGCATTGAGGTTTTATCTTACTCTACCAGAATGTCCCCTGATGAGTGATTCCAAC
AATTTCAACAATAGCAATTCCTTTGGTACAGCTCTTGTGAACCTAGAAAAGGCCACCA
CTGAAAGTACTTGAAAAGTGGTGGTCAGTACTTGAACCTCCACTATTCTCAAGATAGTA
GAACTTTTAAGGAAGTTGGGTACATCTTTTGAACCTTACAAGATCGGTATCCCCCT

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TCTGAAAGAAGAATTTTCAACAGTTTTCTTCATACTGCATTAAAGGTTTTAGAAACTA
 CATAGGGTAAATGAGAAAATGGGACAGATTATACAGTATGATAAATTTTATACATGAA
 GTACAAGAATTGATAGACATAAGAAATGATTATATCAACTGGGTCCAACAGCAGGCCTAT
 GGAATGTTGGCAGATATCCCTGTTACAATCTGTACATATCCATTTGTATTTGATGCCAA
 GCAAAAACACTCTGTTACAGACCGATGCAGTCTTACAGATGCAGATGGCTATTGATCAG
 GCCCACAGGCAGAATGTCTCCTCTCTTTTTCTCCAGTGATTGAATCTGTGAATCCCTGC
 TTAATTTCTAGTGGTGCAGTACAGAAAATATTGTAGGAGATGCAATGGAAGTCCCTTAGGAAA
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 AAATACGGCATGTTAGGTATTATGAAGATTCCAGGCTCATTGGTTTTCTGATAAGACA
 TTTGAAGACAGTATTTGTTCCATTTGATTGGTGTATCTGTGGCTTAGCAATTTATAAT
 TGTACCATTGTGGACCTCCATTTTCTTTGGCTTTATATAAGAACTACTGAAAAAGAAG
 CCATCCTTGGATGATTTGAAAGAATAATGCCTGATGTTGGGAGAAGCATGCAACAGTTA
 CTGGATTATCCAGAAGATGACATAGAGGAAACATTTTGTCTTAATTTTACGATCACAGTT
 GAAAACTTTGGTCAACAGAAGTAAAGAGCTGGTTCTAATGGTGCAGACACAGCTGTT
 AACAAACAAAATCGGCAAGAGTTTGTGCGATGCTTATGTGGATTACATATTCATAAATCA
 GTGGCTTCCTTATTTGATGCTTTTCATGCGGGCTTTCATAAGGTCTGTGGAGAAAAGTC
 CTTCTGCTCTTTACGCTAATGAACACAAAGCAATGGTCATTGGAAAATACAAATTATGAT
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 TTATTTTTGACAGGTAGTGATCGCATTCTATTCTTGGTATGAAGAGTCTGAACTAGTC
 ATCCAGTCCACAGGAGGTGGTGGAGGATCTCCAGTTTCCATACTTGTTTTAACTCTT
 CTGGATCTTCCAAAATATACAGAAAAGAACTCTACGCTCTAACTGATCCAAGCTATT
 GATCACAAATGAAGGCTTCAGTTTAATA

- Restriction Sites:** Please inquire
- ACCN:** BC039600
- 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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:** [BC039600.1](#), [AAH39600.1](#)
- RefSeq Size:** 3842 bp

RefSeq ORF: 3150 bp

Locus ID: 26091

Cytogenetics: 10q21.3

Protein Families: Druggable Genome

Protein Pathways: Ubiquitin mediated proteolysis

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]