

## Product datasheet for **SC337476**

### **HERC4 (NM\_001278186) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HERC4 (NM_001278186) Human Untagged Clone
Tag:	Tag Free
Symbol:	HERC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001278186, the custom clone sequence may differ by one or more nucleotides

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ATGATGAAAATGGAAGGTGGAGTGTCTTTACTTTTGGAGCTGGAGGGTATGGTCAGTTGGGCCATAATTCTA
CCAGTCATGAAAATAACCAAGGAAAGTTTTGAACCTATGGGAAGCATTGCTCACTGAGATTGCTTGTGG
ACGGCAGCACACTTCTGCTTTTGTTCCTTCATCAGGACGAATTTACTCTTTTGGGCTTGGTGGTAATGGG
CAGCTGGGAACCGTTCAACAAGCAACAGGAAAAGCCCTTTACTGTAAAAGGAAATGGTACCCCTATA
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ACAAAGCAGATCTGGACAGTGAATGAAGCTCTAATTCAGAAATGGCTGAGCTATCCTTCTGGAAAGTTTC
CTGTGGAGATAGCCAATGAGATAGATGGAACGTTTTCTCCTCTGGTTGCCTAAATGGAAGTTTTTATAGC
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TTATCCACAACTTATACAACCTGATCATCCGCAGATATCTCAGCAGGTGGCAGCTAGTTTGGAAAAGA
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CGCAAAGAATTTTTCTTCTCATCATGAGGGAATTATTGGATCTAAATACGGCATGTTTAGGTATTATG
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TATCTGTGGCTTAGCAATTTATAATTGTACCATTGTGGACCTCCATTTTCTTTGGCTTTATATAAGAAA
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AGTTACTGGATTCCAGAAGATGACATAGAGGAAACATTTTGTCTTAATTTTACGATCACAGTTGAAAA
CTTTGGTGAACAGAAGTAAAGAGCTGGTTCTAATGGTGCAGACACAGCTGTTAACAAACAAAATCGG
CAAGAGTTTGTGCATGCTTATGTGGATTACATATTCAATAAATCAGTGGCTTCTTATTTGATGCTTTTC
ATGCGGGCTTTCATAAGTCTGTGGAGGAAAAGTCCCTTCTGCTCTTTCAGCCTAATGAACTACAAGCAAT
GGTCATTGGAAATACAAATTATGATTGGGAAGAACTGGAAAAGAATACAGAATACAAAGGGGAATATTGG
GCAGAACATCCTACGATAAAAAATTTTTGGGAAGTATTTACGAATTACCATTGGAAAAGAAGAAACAGT
TTCTGTTATTTTTGACAGGTAGTATCGCATTCTTCTTGGTATGAAGAGTCTGAAACTAGTCATCCA
GTCCACAGGAGGTGGTGGAGGATATCTCCAGTTTCCCACTTGTTTTAACTCTTCTGGATCTTCCAAAA
TATACAGAAAAAGAACTCTACGCTCTAACTGATCCAAGCTATTGATCACAATGAAGGCTTCAGTTAA
TATAA
    
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- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001278186
- 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001278186.1</a></u> , <u><a href="#">NP_001265115.1</a></u>
<b>RefSeq Size:</b>	4255 bp
<b>RefSeq ORF:</b>	2385 bp
<b>Locus ID:</b>	26091
<b>UniProt ID:</b>	<u><a href="#">Q5GLZ8</a></u>
<b>Cytogenetics:</b>	10q21.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) lacks two alternate exons compared to variant 1, and one causes a frameshift. These differences cause translation initiation at a downstream AUG and result in an isoform (d) with a shorter and distinct N-terminus and lacking an alternate internal segment, compared to isoform 1.</p>