

## Product datasheet for SC128201

### HERC4 (NM\_015601) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HERC4 (NM_015601) Human Untagged Clone
Tag:	Tag Free
Symbol:	HERC4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC128201 sequence for NM_015601 edited (data generated by NextGen Sequencing)

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ATGTTGTGCTGGGAAATGCATCCTTTGGGCAGCTAGGTTTGGGTGGAATTGATGAAGAA
ATTGCTACTAGAGCCCAGAAAAAGTGACTTCTTTATAAATAAAAGGGTCCGAGATGTAGGA
TGTGGACTCAGACATACTGTGTTTGTCTGGATGATGGAACAGTGTACACATGTGGATGT
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GACAAAGGCCAGGTGTATGCTTGGGGTCTCGATTCTGATGGACAGCTTGGCCTGGTAGGA
TCAGAGGAATGCATCAGAGTACCCAGAAATATTAAGTTTGTGTCAGATATCCAGATTGTA
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CCGCAGCTGCTTAAGTCTTTGCTTGAATCCCTTTCATGCAAGTTGCAGCAGGAGGAGCC
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CTGAAAGTACTTGAAAACCTGGTGGTCAGTACTTGAACCTCCACTATTCCTCAAGATAGTA
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CATAGGGTAAATGAGAAAATGGGACAGATTATACAGTATGATAAAATTTTATACATGAA
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CTGGATCTTCAAATATACAGAAAAGAACTCTACGCTCTAACTGATCCAAGCTATT
GATCACAATGAAGGCTTCAGTTAATATAA
    
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Clone variation with respect to NM\_015601.3  
 1011 c=>t;1099 a=>t

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_015601 unedited  
 GGGTGGCANAATTTGTAATACGAACTCACTATAGGGCGGCCGGAATTCGCACGAGGCCA  
 CCTCCCCCTCTGCCTTCTCTACCCAGTCTCTTCCCAACTCTCCCACCCCTGGTGCTC  
 TCCGCCCCGCTTGCCTCCCGTTCTTCCCGCCCGCTCCATCCGGGTGCTGACGGCTGTC  
 TCTGGACTGGACAGCAGTGGCGTCCGCTTTTCTTAAGGAACCCGATAAGAAGTCCATTT  
 TCTGTTGATGTGGAGACATAGGGTACCTCCAACCTTCCGGGGTTTCAGAAGAGAAATTTT  
 TATTGAACTGGAAGACAAAATAATTACAAGCATGTTGTGCTGGGAAATGCATCCTTT  
 GGGCAGCTAGGTTTGGGTGGAATTGATGAAGAAATGTACTAGAGCCAGAAAAGTGAC  
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 CTGGATGATGGAACAGTGTACACATGTGGATGTAATGATCTAGGACAGCTAGGTCATGAA  
 AAATCCAGANAGAAACCAGAGCAGGTTGTTGCCCTGGATGCCAAAATATTGTAGCTGTT  
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 CTCGATTCTGATGGACAGCTTGGCTGGTAGGATCAGAGGAATGCATCANAGTACCCAAA  
 ATATNTAAAGTTTGTGAGATATCCAGATTGTACAGGTTGCTTGTGGTTACTATCATTAC  
 TTGCACCTTCTAAAGCAAGTGAAGTCTTCTGTTGGGGACAGAATAAATATTGGCCAATT  
 GGTTTAAGTACTGACTGTAAAAAGCAAACCTTACCGCAGCTGCTTTAGTCTTTGCCTGG  
 ATCCTTTCATGCAAGNTGCACCAGAAGGACCCTC

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' genomic read for NM_015601 unedited NGATCGATTTTTCTTTTTTTTTTAAATATTAACAATAAATCTTTATTAACAGTTT TCACGGCATTAAAAATAAATTTAAAAATAAATATTTGCATTATAGCAGAAAGTCACAT GTATTGCATCACTCACTTTTACAATTTAATGGCATGAGACAATAAGCATCAGCACCAT AAAACTGTAAAGATTTGTTTCTAAATCAAGGAAATAGCTCTAAAGCACTGCAGCATCA ATAATTTTGAAAGCTATAACCCAGTGATTGGTGCTCATAGTAGCCAATGTTTCTTTTAT TACTGGCACTGTGGAGACAGATTCTTCCAGTACTAAATATTAATAAGTTCTCTGATCG ACAATCCCCATCTATCAGTGTGTCAGGATTCACAAAGAAAAGAACTGCAGGTTATGTAG TATATTCCTATCTGTGATTTAGTTTTGCACAAAGACACTTATTCTAGCAAAAAAGAAAA GATAGTGTTCACCATGCTACCTTTTTTTTTCTTTTATAGAGTCTCAGAGTAAGATTTA AATCATAATTTTAACTTTAAAGTCTGTTCAAGTTCAATTACAACCATAGAACTGTA CTGGTATCAGAACATAACTATTTTATTACAAACTTAACATTATTACAAAATGAAAAA TAATCAAATGACTATTGCAGGCCAAAGTTAAAGGTTTTTCACTCAATGATTGGAAGAAA ATTNAAAGCATATTTTATGCACCTCACACCAGATCATTTCTGAAATATGCAAACTTTAAA ATCATGTTAGTAAACTTAATGTATTCATATACTTGCTAGTTTATTAGAAGAGGTCAAAA AAATCCATGGTCTGTACATAATATAACAAGTTGTA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_015601
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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>	<a href="#">NM_015601.2</a> , <a href="#">NP_056416.2</a>
<b>RefSeq Size:</b>	3842 bp
<b>RefSeq ORF:</b>	3150 bp
<b>Locus ID:</b>	26091
<b>UniProt ID:</b>	<a href="#">Q5GLZ8</a>
<b>Cytogenetics:</b>	10q21.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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]  
Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.