

## Product datasheet for SC114951

### HERC3 (NM\_014606) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HERC3 (NM_014606) Human Untagged Clone
Tag:	Tag Free
Symbol:	HERC3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114951 sequence for NM_014606 edited (data generated by NextGen Sequencing)

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ATGTTATGTTGGGGATATTGGTCTCTGGGCCAACCTGGTATCAGCACCACTGCAGGGA
ATTGTGGCTGAGCCCAGGTGTGTGGGTTTCATATCTGACAGAAGTGTCAAGGAAGTGCC
TGTGGGGGAAACCACTCTGTGTTCTGTGGAAGATGGGGAAGTTTACACATGTGGTTTG
AACACCAAGGGGCAACTGGGCCATGAGAGGGAAGGAAACAAGCCAGAACAATTGGAGCT
CTGGCAGATCAGCATATCATTATGTGGCATGTGGCGAGTCCCACAGTCTGGCCCTCAGT
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ACTGAGGATTCTGTGGCAGTGCCAGGTTAATACAAAAGCTGAACCAGCAACAATATTA
CAAGTTTCTGTGGCAACTGGCATTGCTTGGCTCTTGGCGCTGATGGCCAGTTCTTCACC
TGGGAAAGAACAAGCCATGGGCAGCTTGGCTTAGGGAAGGAGTTCCCTCCCAAGCCAGC
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CACAGCTTTGCCCTGTCTCTCTCAGGAGCTGTTTTGGCTGGGGGATGAATAATGCCGGG
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GTTGAAGCCATGAGAATCTATTTAATACTACCTGAGTTTCCCCTACTCCAGGATTCGAAG
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AGCAAAGTACTAGATAACTGGTGGTCTCAGGTATGCCCGAAATATTTTCATGAAGCTGGTA  
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ACTGTA AAAACTATTTTGGAAACATTTTCATGAGTTTCCATTGGAAAAGAAGAAGAAGTTT  
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GTATCCAGTCCACAGCCAGCGGGAGGAGTACTTGCCGGTGGCCACACTTGCTACAAC  
CTTCTTGACCTCCCAAGTACAGCAGCAAAGAGATTCTGAGTGCCCGGCTGACCCAGGCC  
CTTGACAACATGAAGGGTTTAGTTTGGCCTGA

Clone variation with respect to NM\_014606.1  
2526 a=>g;2836 g=>c

**5' Read Nucleotide  
Sequence:**

>OriGene 5' read for NM\_014606 unedited  
GCATTTTGTAAATACGACTCACTATAGGGCGGCCCGCAATTCGCACCAGGTCCGGCGAGA  
GGGGCTGTGACAGTCCGAGTCCCAAGCTGCGGTTCCGGCTGCTGCCGAGAAGTGAAGGTG  
TGAATATTTCTGGCTTCTAGTCCAATGCCAAGTGTGTGACCTGTGAGTTAATTCTGCAT  
TTTAGTTTTGGCCCTACATTTATTTAAAGCCTGAATTTGGGGAGTATCTGCAAAGCACTG  
AAGTTTTGGACATTGTCTTTCTGCTGTTGAAAGAGACCCTTTCATATATACAACAT  
TCAGGCTACATGATTCCTGAAAGATAAGAACAATGTTATGTTGGGGATATTGGTCTCTG  
GGCCAACCTGGTATCAGCACCAACCTGCAGGGAATTGTGGCTGAGCCCCAGGTGTGTGGG  
TTCATATCTGACAGAAGTGTCAAGGAAGTGGCCTGTGGGGAAACCACTCTGTGTTCCCTG  
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GCAGGGAGTGATGGTCACTAGGACTCATGACTACTGAGGATTCTGTGGCAGTGGCCAGG  
TTAATACANAAGCTGAACAGCANNACATATTACAAGTTTCTGTGGCAACTGGCATTGC  
TTGGCTTTGCNGCTGATGGCCAGNTCTTACCTGGGGGAAGAACAGCCATGGGCAGCTT  
GGCTTAGGAAAGAGTTCCCTCCAGCCAGCCACAGAGGTGAGGTCCCTGGAGGGGATC  
CACTGCCTCAGTGGCTGCCGGAGNGCTCACACTTTGCCTGCTCTCAGAACTGTTTTGCT  
GGGA

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_014606 unedited TAGCTTTGNACNCGGCCGCATNCTAGNATCGAGTTTTTTTTTTTTTTTTTTTAAAGTTA AAACACCAAAATTTATTGCATAATATTGAACTATATGCACACACATAGNAAAAATAACATT TCATATAACTGTATATATATTTTTAATCCTGTATTTATAAAGACTGAAAAACTACCAATT TAGCAATTGGAATAAGTTTTAAAAACAAAAAGAAAAAGCAAAAATCTACAATCCTTCATC AAGATTTGATGCTTTATCACAGTTCATAAATACTTCATTTTATATAAATAAGTCTTTTCT CTAGTTACTAGGAATTTAAAATTAGACTTACATGGATTCTTTAATCATGTAGAATTTTCT TACTCCATGATGAGGAAGTTGAGCATGTCATTATTTTTAAAATACATATATTTGATTTA AACACAATCCCCCTAAAATCCCCTGTAAACAAACATTTTCAATGTGATAAAGTTTCAT AATAAAGAACGTCCTTAAATCTTAGCAATTAGGGAAGAGGAAAAAAATCTGAGTAAAAA TTTTGCAATTTAAATAAAAATTGAAAAAAGGCTGCATGCATCCACTAAAAGGAGAGGAG AGGAAGGGAGCACTGAGTCAAGTAACAGAGAATGGGATAAAAATAAAGAAGAAACGAAAGG AAAATCAGGGAGGACGCAGGGTACGAAAAGGAGAAAATAAGGGAAGGGAGGAAGGAGAAA ATGGTAGAGGACATAAGGTGATAGAAAAAGGAAAGNNAATTTATTATTTCTACTTTTCT TGGACATATAGAGACTCAATAGTTATGGCACTTTGCTCAAAGCGAGAGTGCAGAGGTGT GGGTCTATCATTACCTTATGTAAGGNACAGGATGAGCAGAAAAATTAGCTCGCTGCACGA TGCTAGCTGTCTGCCATCTTTAAAGGTCTAGAATAGCCAGCATGGNAAAGTGCTATCCTC AGACTTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014606
<b>Insert Size:</b>	5270 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_014606.1</a> , <a href="#">NP_055421.1</a>
<b>RefSeq Size:</b>	4894 bp
<b>RefSeq ORF:</b>	3153 bp
<b>Locus ID:</b>	8916
<b>UniProt ID:</b>	<a href="#">Q15034</a>
<b>Cytogenetics:</b>	4q22.1
<b>Domains:</b>	RCC1, HECT

**Protein Families:** Druggable Genome

**Protein Pathways:** Ubiquitin mediated proteolysis

**Gene Summary:** This gene encodes a member the HERC ubiquitin ligase family. The encoded protein is located in the cytosol and binds ubiquitin via a HECT domain. Mutations in this gene have been associated with colorectal and gastric carcinomas. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Oct 2012]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).