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# Product datasheet for SC113837

## HERC6 (NM_017912) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | HERC6 (NM_017912) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | HERC6 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

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**Fully Sequenced ORF:**

>NCBI ORF sequence for NM_017912, the custom clone sequence may differ by one or more nucleotides

ATGTACTTCTGTTGGGGCGCCGACTCCAGGGAGCTGCAGCGCCGGAGGACGGCGGGCAGCCCCGGGGCTG
AGCTACTGCAGGCGGCCAGCGGGGAGCGCCACTCTCTGCTGCTGCTGACCAACCACAGGGTCCTCTCGTG
CGGAGACAACAGCAGGGGTCAGCTGGGCCGCAGGGGCGCGCAGCGCGGGGAGCTGCCAGAACCAATTCAG
GCATTGGAAACCCTAATTGTTGATCTCGTGAGCTGCGGGAAGGAGCACTCCCTGGCTGTGTGCCACAAAG
GAAGGGTCTTCGCATGGGGAGCTGGTTCTGAAGGGCAGCTGGGGATTGGAGAATTCAAGGAAATAAGTTT
CACACCTAAGAAAATAATGACTCTGAATGATATAAAAATAATACAAGTTTCCTGTGGACACTACCACTCC
CTGGCATTATCAAAAGATAGCCAAGTGTTTTCGTGGGGAAAGAACAGCCATGGGCAGCTGGGCTTGGGGA
AGGAGTTCCCCTCCCAAGCCAGCCCGCAGAGGGTGAGGTCCCTGGAGGGGATCCCACTGGCTCAGGTGGC
TGCCGGAGGGGCTCACAGCTTTGCCCTGTCTCTCTGTGGGACTTCGTTTGGCTGGGGAAGTAACAGTGCC
GGGCAGCTGGCCCTCAGTGGGCGTAATGTCCCAGTGCAAAGCAACAAGCCTCTCTCAGTCGGTGCACTGA
AGAATCTAGGTGTGGTTTATATCAGCTGTGGTGATGCACACACTGCGGTGCTTACCCAGGACGGGAAAGT
GTTCACATTTGGAGACAATCGCTCTGGACAGCTGGGATACAGCCCCACTCCTGAGAAGAGAGGTCCACAA
CTTGTGGAAAGAATTGATGGCCTAGTTTCGCAGATAGATTGTGGAAGTTATCACACCCTGGCATATGTGC
ACACCACTGGTCAGGTGGTATCTTTTGGTCATGGACCAAGTGACACAAGCAAGCCAACTCATCCGGAGGC
CCTGACAGAGAACTTTGACATTAGCTGCCTGATTTCTGCTGAAGACTTCGTGGATGTTCAAGTCAAACAC
ATTTTTGCTGGAACATATGCCAACTTTGTGACAACTCATCAGGATACTAGTTCCACACGTGCTCCCGGGA
AAACCCTGCCAGAAATAAGCCGAATTAGCCAGTCCATGGCAGAAAAATGGATAGCAGTGAAAAGAAGAAG
TACTGAACATGAAATGGCTAAAAGTGAAATTAGAATGATATTTTCATCTCCTGCTTGTCTGACTGCAAGT
TTTTTAAAGAAAAGAGGAACTGGAGAAACGACTTCCATTGATGTGGACTTAGAAATGGCAAGAGATACCT
TCAAGAAGTTAACAAAAAAGGAATGGATTTCTTCCATGATAACTACGTGTCTCGAGGATGATCTGCTCAG
AGCTCTTCCATGCCATTCTCCACACCAAGAAGCTTTATCAGTTTTCCTCCTGCTCCCAGAATGTCCTGTG
ATGCATGATTCTAAGAACTGGAAGAACCTGGTGGTTCCATTTGCAAAGGCTGTGTGTGAAATGAGTAAAC
AATCTTTGCAAGTCCTAAAGAAGTGTTGGGCATTTTTGCAAGAATCTTCTCTGAATCCGCTGATCCAGAT
GCTTAAAGCAGCCATCATCTCTCAGCTGCTTCATCAGACTAAAACCGAACAGGATCACTGTAATGTTAAA
GCTCTTTTAGGAATGATGAAAGAACTGCATAAGGTAAACAAAGCTAACTGTCGACTACCAGAAAATACTT
TCAACATAAATGAACTCTCCAACTTATTAAACTTTTATATAGATAGAGGAAGACAGCTCTTTCGGGATAA
CCACCTGATACCTGCAGAAACCCCCAGTCCTGTTATTTTCAGTGATTTTCCATTTATCTTTAATTCGCTA
TCCAAAATTAAATTATTGCAAGCTGATTCACATATAAAGATGCAGATGTCAGAAAAGAAAGCATACATGC
TTATGCATGAAACAATTCTGCAAAAAAAGGATGAATTTCCTCCATCACCCAGATTTATACTTAGAGTCAG
ACGAAGTCGCCTGGTTAAAGATGCTCTGCGTCAATTAAGTCAAGCTGAAGCTACTGACTTCTGCAAAGTA
TTAGTGGTTGAATTTATTAATGAAATTTGTCCTGAGTCTGGAGGGGTTAGTTCAGAGTTCTTCCACTGTA
TGTTTGAAGAGATGACCAAGCCAGAATATGGAATGTTCATGTATCCTGAAATGGGTTCCTGCATGTGGTT
TCCTGCCAAGCCTAAACCTGAGAAGAAAAGATATTTCCTCTTTGGAATGCTGTGTGGACTCTCCTTATTC
AATTTAAATGTTGCTAACCTTCCTTTCCCACTGGCTCTGTATAAAAAACTTCTGGACCAAAAGCCATCAT
TGGAAGATTTAAAAGAACTCAGTCCTCGGTTGGGGAAGAGTTTGCAAGAAGTTCTAGATGATGCTGCTGA
TGACATTGGAGATGCGCTCTGCATACGCTTTTCTATACACTGGGACCAAAATGATGTTGACTTAATTCCA
AATGGGATCTCCATACCTGTGGACCAAACCAACAAGAGAGACTATGTTTCTAAGTATATTGATTACATTT
TCAACGTCTCTGTAAAAGCAGTTTATGAGGAATTTCAGAGAGGATTTTATAGAGTCTGTGAGAAGGAGAT
ACTTAGACATTTCTACCCTGAAGAACTAATGACAGCAATCATTGGAAATACTGATTATGACTGGAAACAG
TTTGAACAGAATTCAAAGTATGAGCAAGGATACCAAAAATCACATCCTACTATACAGTTGTTTTGGAAGG
CTTTCCACAAACTAACCTTGGATGAAAAGAAAAAATTCCTCTTTTTCCTTACAGGACGTGATAGGCTGCA
TGCAAGAGGCATACAGAAAATGGAAATAGTATTTCGCTGTCCTGAAACTTTCAGTGAAAGAGATCACCCA
ACATCAATAACTTGTCATAATATTCTCTCCCTCCCTAAGTATTCTACAATGGAAAGAATGGAGGAAGCAC
TTCAAGTAGCCATCAACAACAACAGAGGATTTGTCTCACCCATGCTCACACAGTCATAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_017912 unedited
NATTTTGTACTACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGCCATTCTCCA
CACCAAGAAGCTTTATCAGTTTTCCTCCTGCTCCCAGAATGTCCTGTGATGCATGATTCT
AAGAACTGGAAGAACCTGGTGGTTCCATTTGCAAAGGCTGTGTGTGAAATGAGTAAACAA
TCTTTGCAAGTCCTAAAGAAGTGTTGGGCATTTTTGCAAGAATCTTCTCTGAATCCGCTG
ATCCAGATGCTTAAAGCAGCCATCATCTCTCAGCTGCTTCATCAGACTAAAACCGAACAG
GATCACTGTAATGTTAAAGCTCTTTTAGGAATGATGAAAGAACTGCATAAGGTAAACAAA
GCTAACTGTCGACTACCAGAAAATACTTTCAACATAAATGAACTCTCCAACTTATTAAAC
TTTTATATAGATAGAGGAAGACAGCTCTTTCGGGATAACCACCTGATACCTGCAGAAACC
CCCAGTCCTGTTATTTTCAGTGATTTTCCATTTATCTTTAATTCGCTATCCAAAATTAAA
TTATTGCAAGCTGATTCACATATAAAGATGCAGATGTCAGAAAAGAAAGCATACATGCTT
ATGCATGAAACAATTCTGCAAAAAAAGGATGAATTTCCTCCATCACCCAGATTTATACTT
AGAGTCAGACGAAGTCGCCTGGTTAAAGATGCTCTGCGTCAATTAAGTCAAGCTGAAGCT
ACTGACTTCTGCAAAGTATTAGTGGTTGAATTTATTAATGAAATTTGTCCTGAGTCTGGA
GGGGTTAGTTCAGAGTTCTTCCACTGTATGTTTGAAGAGATGACCAAGCCAGATATGGAA
TGGTCATGTACCTGAATGGGNTCCTGCTGTAGGNTNCTGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_017912 unedited
GCCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGGGTGGTGAAGGAGTG
GATTTATTGGAGCACAAGGCAGTGAAGCAGCAAAAGTGAAAGTACATTCCACAGGGTGGG
AGTGGGCTAGAGCAAGTGGCTCAAGAGCCCTGGTAGCAAAATCTTCTGGGGCTTAAGTAC
CCTGTAGAGGTTTCTTGATGGTTACACCCTATGTAAATGAAAGACTGACTCACAGCCAAT
TAGAGACTGAGGTGAATTGGCTCACAGCCAATCCAAGACTGGTGTGGTTTGACTCCTTAT
GCAAATGAATGTCCTGGAATGAACCAATCATTGGCCAGAGTGCAGGTCTGGCCCATGGCC
AATCAGAGGCTGATGTGGTTTGATACCTTATGCAAATGAAGGTCCTGGAATGGACCAATC
ACAGGCCAGTGTTCAGACTCTTCAGTGCCAGGGAGTGTGTCCAAGTCATCCTTAGATCCC
TATCTCTGTACCCTATTCTCCTGCCTCAGTCTTGTGTGAGATTTTGCACCCTTTGACCAT
CATCATCATCTCCCCATTCCCCCAATCTCTTGTATTATTTAGGTGTAAGGAAGAACAGAA
TGATCCAAGTGTGAGAAAGCCCACCCTGAGTCTCTCAGAGGTGATTATGACTGTGTGAGC
ATGGGTGAGACAAATCCTCTGTTGTTGTTGATGGCTACTCTGAATGCTTCCCTCCATTCT
TTCCATTGCAGAATACTTACGGAGGCAGAGGATATTATGACCAGCTATTTGTGTTGGGGC
GATCCTCTTTCACTTGAAGTTCCAGGACAGCGAAACACTATTTCCATTTTTGAATGCCTT
TTTGATGCAAGCTATCCGTTCTGTAGGAAAAAGAGAATTTTTCCTTTTCTTCCAGTTTAG
TTTGGGAAAGCCCTCCCAACCACTGTCATAAAGAGGGAATTTGGGATTCTGGCCCTACTT
GAATTTGGCCAACCGTTCCACACCCAATATATTTCACGGTGGCGCCCTCACCCT

**Restriction Sites:** NotI-NotI

**ACCN:** NM_017912

**Insert Size:** 2320 bp

**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).

| | |
|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_017912.1, NP_060382.1 |
| **RefSeq Size:** | 3903 bp |
| **RefSeq ORF:** | 3903 bp |
| **Locus ID:** | 55008 |
| **UniProt ID:** | Q8IVU3 |
| **Cytogenetics:** | 4q22.1 |
| **Domains:** | HECT |
| **Protein Families:** | Druggable Genome |
| **Gene Summary:** | HERC6 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]<br>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). |