

Product datasheet for **RC235685**

HERC4 (NM_001278187) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HERC4 (NM_001278187) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HERC4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC235685 representing NM_001278187
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTTGTGCTGGGAAATGCATCCTTTGGGCAGCTAGGTTTGGGTGGAATTGATGAAGAAATGTACTAG
AGCCAGAAAAAGTGACTTCTTTATAAAATAAAAGGGTCCGAGATGTAGGATGTGGACTCAGACATACTGT
GTTTGTCTGGATGATGGAACAGTGTACACATGTGGATGTAATGATCTAGGACAGCTAGGTCATGAAAA
TCCAGAAAGAAACCAGAGTTTCGCTCTTGTTCAGGCCGAGTGAATGGCGCCATCTCGGCTCACCG
CAACCTCTGCCTCCCAGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235685 representing NM_001278187
Red=Cloning site Green=Tags(s)

MLCWGNASFGQLGLGGIDEEIVLEPRKSDFFINKRVRDVGCLRHTVFVLDGTVYTCGCNDLQGLGHEK
SRKKPEFRSCFPGRSAMAPSRLTATSASQVQAILLPQPPE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

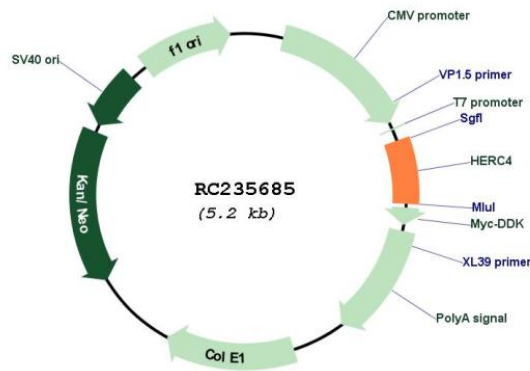


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001278187
 ORF Size: 330 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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:	NM_001278187.2
RefSeq Size:	2147 bp
RefSeq ORF:	333 bp
Locus ID:	26091
UniProt ID:	Q5GLZ8
Cytogenetics:	10q21.3
Protein Families:	Druggable Genome
Protein Pathways:	Ubiquitin mediated proteolysis
MW:	12.5 kDa
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]