

## Product datasheet for **RG235685**

### HERC4 (NM\_001278187) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HERC4 (NM\_001278187) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** HERC4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG235685 representing NM\_001278187.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTTGTGCTGGGAAATGCATCCTTTGGGCAGCTAGGTTGGGTGGAATTGATGAAGAAATGTACTA
GAGCCAGAAAAAGTGACTTCTTTATAAATAAAAGGGTCCGAGATGTAGGATGTGGACTCAGACATACT
GTGTTTGTCTGGATGATGGAACAGTGTACACATGTGGATGTAATGATCTAGGACAGCTAGGTCATGAA
AAATCCAGAAAGAAACCAGAGTTTCGCTCTTGTTCAGGCGCGGAGTGAATGGCGCCATCTCGGCTC
ACCGCAACCTCTGCCTCCAGGTTCAAGCAATTCCTCTGCCTCAGCCTCCCGAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG235685  
 Blue=ORF Red=Cloning site Green=Tag(s)

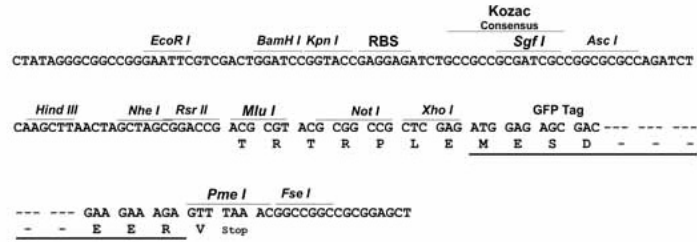
```
MLCWGNASFGQLGLGGIDEEIVLEPRKSDFFINKRVRDVGCLRHTVFLDDGTVYTCGCNDLQQLGHE
KSRKKPEFRSCFPGRSAMAPSRLTATSASQVQAILLQPPE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI

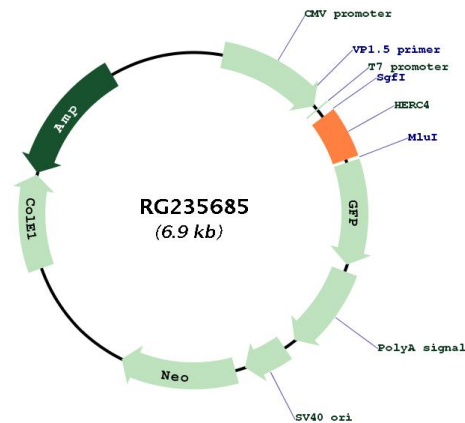


## Cloning Scheme:

Cloning sites used for ORF Shutting:



## Plasmid Map:



ACCN: NM\_001278187

ORF Size: 330 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>RefSeq:</b>	<a href="#">NM_001278187.2</a>
<b>RefSeq Size:</b>	2147 bp
<b>RefSeq ORF:</b>	333 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
<b>MW:</b>	12.5 kDa
<b>Gene Summary:</b>	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]