

Product datasheet for **RG233180**

HERC3 (NM_001271602) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HERC3 (NM_001271602) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HERC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG233180 representing NM_001271602
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTACTGAGGATTCTGTGGCAGTGCCAGGTTAATACAAAAGCTGAACCAGCAAACAATATTACAAG
 TTTCTGTGGCAACTGGCATTGCTTGGCTTTCGGCTGATGGCCAGTTCTTACCTGGGAAAGAACAG
 CCATGGGCAGCTTGGCTTAGGGAAGGAGTCCCTCCCAAGCCAGCCACAGAGGTGAGTCCCTGGAG
 GGGATCCCACTGGCTCAGGTGGCTGCCGGAGGGGCTCACAGCTTTGCCCTGTCTCTCAGGAGCTGTTT
 TTGGCTGGGGATGAATAATGCCGGCAGCTAGGGCTCAGTGATGAAAAAGATCGAGAATCTCCATGCCA
 TGTAAGCTCTTACGCACGCAAAAAGTTGTCTATATTAGTTGTGGAGAAGAACACACAGCAGTTCTCACA
 AAGAGTGGAGGTGTGTTACCTTTGGCGCTGGTTCCTGTGGCAACTGGACACGACTCCATGAATGATG
 AGGTTAACCTAGAAGAGTTCTAGAGCTGATGGGTAGTGAAGTAACTCAAATTGCTTGTGGCAGACAACA
 TACCCTAGCCTTGTGCCTTCTTCTGGACTCATCTATGCATTTGGTTGTGGAGCAAGAGGTCAATTAGGA
 ACTGGGCACACTTGAATGTTAAGTGCCCATCTCCTGTCAAGGGTACTGGGCTGCCACAGTGGCCAGC
 TTTAGCCCGAGCTGATCGCTTAAATATCATATCGTTAAGCAGATCTTCTCTGGAGGAGACCAGACTTT
 TGTACTTTGCTCCAAATACGAGAATTATCTCCTGCTGTTGACTTCAGGACTATGAACCAAGCACATTAT
 ACCAGTTTAAATAATGATGAAACCATAGCAGTTTGGAGACAAAACTCTCAGAACAACAATGCAAATA
 CAATCAATGGTGTGTTTCCAGATATTCTTCTGCAGCCTGTTGGAATGGAAGTTTTCTTGAAAAAAAAT
 TGATGAACATTTTAAAACGAGTCCCAAAATCCCTGGGATTGACCTGAACCAACTAGGGTGTATTTGAG
 AAGTTAATGAACCTCAGCACTCCATGATTCTAGAACAGATTTTGAACAGTTTTGAAAGTTGTCTGATTC
 CCCAGTTGCAAGCTCACACCAGATGTTGAAGCCATGAGAATCTATTTAATACTACCTAGTTTCCCCT
 ACTCCAGGATTTCAAGTATTATATAACATTGACTATTCCTTGGCTATGGCCATTCTTCGGCTGGATACA
 AACCCAGCAAAGTACTAGATACTGGTGTCTCAGGTATGCCCGAAATATTTTCATGAAGCTGGTAAACC
 TCTATAAAGTGCAGTCTTTATCTACTGAGGGGAAGAAAGACATTCTTAATTCCTGACTGTTTAAACA
 TTATATCACAGCAGCTCTCAAACCTTGGAGAAGTTATATAAGGTAATCTTAAAGTGAAGCATGTGGAA
 TATGATACATTTTACATTCTGAGATTTCCAATCTCGTGGACATTCAGGAAGACTACCTCATGTGGTTCT
 TGCATCAAGCAGGGATGAAGGCTAGACCATCAATAATACAGGACTGTAAACACTTTGTTCTACCTTT
 CATCTTTGATGCCAAGCCAAGACCAAAATGTTACAGACAGATGCTGAACACAGATGCAGGTGGCAGTC
 AATGGAGCCAACCTGCAGAAATGTCTTCATGCTTCTCACCTGGAGCCTCTGCTGGCCAGAAGCCCCTTC
 TGGTCTTACGTTTCGCAGGAACAACCTTGTGGAGATGCCCTAAGAGAGCTGAGCATTCTTCTGATAT
 TGATTTGAAAAAGCCTCTCAAAGTAATCTTTGATGGTGAAGAAGCAGTGGATGCCGGTGGTGTACAAAG
 GAATTTTTTCTTTTGTGTTTAAAAGAAGTTTTGAATCCCATCTATGGAATGTTTACCTACTATCAAGATT
 CAAATCTCTTGTGGTTTTTCCAGACAGTGTGTTGTAGAGCACAAGTGGTTTCACTTGATTGGTATAACCTG
 TGGACTAGCTATCTACAACCTCACTGTGGTTCGATCTCCACTTCCCATTGGCTCTCTACAAGAAGTACTC
 AATGTAAGCCTGGCTTGAAGACTTAAAGGAGTTGTCAACCACTGAAGGAAGGAGTCTCCAAGAGCTTT
 TAGATTACCCCGGGGAGGATGTGGAGGAGACTTCTGCCTCAACTCACGATCTGCCGAGAAAGCTATGG
 AGTATTGAACAGAAGAAGCTGATACCTGGGGGAGATAATGTAAGTGTGTGCAAGGATAACAGGCAGGAA
 TTTGTGGATGCTTATGTGAATTATGCTTCCAAATCTCAGTTCATGAATGGTACACAGCCTTCTCTAGTG
 GCTTCTTAAAGGTGTGTGGTGGCAAAGTACTTGAGCTTCTCCAGCCTTCAAGAACTGAGGGCTATGATGGT
 GGGGAACAGCAACTACAACCTGGGAAGAACTGGAAGAGACTGCCATCTACAAGGGAGATTACTCGCCACA
 CATCCCACTGTAAAATATTTTGGGAAACATTTTCATGAGTTTCCATTGAAAAAGAAGAAGTTTCTCT
 TGTTCTGACAGGCAGCGATCGGATTTCCATCTACGGCATGGCCAGTCTGCAGATTGTCATCCAGTCCAC
 AGCCAGCGGGGAGGAGTACTTGGCGGTGGCCACACTTGTACAACCTTCTTGACCTCCCAAGTACAGC
 AGCAAAGAGATTCTGAGTGCCCGCTGACCCAGGCCCTTGACAACATGAAGGGTTAGTTTGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233180 representing NM_001271602
Red=Cloning site Green=Tags(s)

MTTEDSVAVPRLIQKLNQQTILQVSCGNWHCLALAADGQFFTWGKNSHGQLGLGKEFPSQASPQRVRSLE
 GIPLAQVAAGGAHSFALSLSGAVFGWGMNAGQLGLSDEKDRESPCHVKLLRTQKVVYISCGEEHTAVLT
 KSGGVVTFGAGSCGQLGHDSMNDEVNPRRVLELMGSEVTQIACGRQHTLAFVPSSGLIYAFGCGARGQLG
 TGHTCNVKCPSPVKGYWAAHSGQLSARADRFKYHIVKQIFSGGDQTFVLC SKYENYSPAVDFRTMNQAHY
 TSLINDETI AVWRQKLS EHNANTINGVVQILSSAACWNGSFLEKKIDEHFKTSPKIPGIDLNSTRVLE
 KLMNSQHSMILEQILNSFESCLIPQLSSPPDVEAMRIYLILPEFLLQDSKYYITLTIPLAMAILRLDT
 NPSKVLDNWWSQVCPKYFMKLVNLYKGAVLYLLRGRKTFLLIPVLFNNYITAALKLLEKLYKVNLYKVKHVE
 YDFYIPEISNLVDIQEDYLMWFLHQAGMKARPSIIQDVTLC SYPIFDAQAKTKMLQTD AELQMQVAV
 NGANLQNVFMLLTLEPLLARSPFLVLRNRNLVGDALRELSIHSIDLKPKLVIFDGEEAVDAGGVTK
 EFFLLLLKELLNPIYGMFTYYQDSNLLWFSDTCFVEHWNFHLIGITCGLAIYNSTVVDLHFPLALYKLL
 NVKPGLEDLKE LSPT EGRSLQELLDYPGEDVEETFCLNF TICRESYGVIEQKKLIPGGDNVTVC KDNRQE
 FVDAYVNYVFQISVHEWYAFSSGFLKVC GGKVL E L FQPS E LRAMMVGNSNYNWE E E E T A I Y K G D Y S A T
 HPTVKLFWETFHEFPLEKKKFLFLFTGSDRIP I Y G M A S L Q I V I Q S T A S G E E Y L P V A H T C Y N L L D L P K Y S
 SKEILSARLTQALDNYEGFSLA

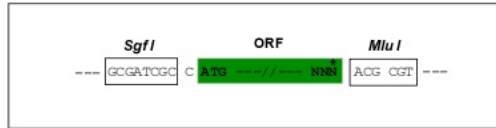
TRTRPLE - GFP Tag - V

Restriction Sites:

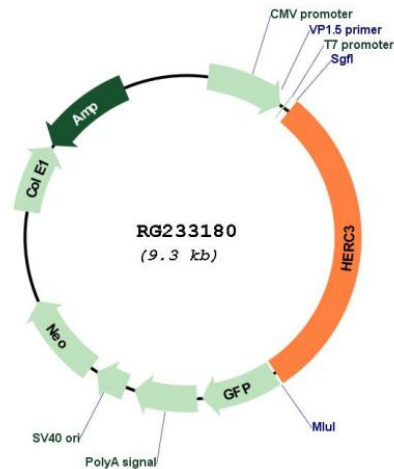
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001271602

ORF Size: 2796 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:

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_001271602.2](#)

RefSeq Size: 4730 bp

RefSeq ORF: 2799 bp

Locus ID: 8916

UniProt ID: [Q15034](#)

Cytogenetics: 4q22.1

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]