

Product datasheet for **RG214034**

HERC3 (NM_014606) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HERC3 (NM_014606) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HERC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214034 representing NM_014606 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTATGTTGGGGATATTGGTCTCTGGGCCAACCTGGTATCAGCACCAACCTGCAGGGAATTGTGGCTG
AGCCCCAGGTGTGTGGGTTTCATATCTGACAGAAGTGTCAAGGAAGTGGCCTGTGGGGAAACCACTCTGT
GTTCTCTGCTGGAAGATGGGGAAGTTTACACATGTGGTTTGAACACCAAGGGGCAACTGGGCCATGAGAGG
GAAGGAAACAAGCCAGAACAATTTGGAGCTCTGGCAGATCAGCATATCATTATGTGGCATGTGGCCGAGT
CCCACAGTCTGGCCCTCAGTGACCGAGGCCAGCTGTTTTCTTGGGGTGCAGGGAGTGATGGTCAGCTAGG
ACTCATGACTACTGAGGATTCTGTGGCAGTGCCAGGTTAATACAAAAGCTGAACCAGCAACAATATTA
CAAGTTTCTGTGGCAACTGGCATTGCTTGGCTCTTGGCCTGATGGCCAGTTCTTCACCTGGGGAAAGA
ACAGCCATGGGCAGCTTGGCTTAGGGAAGGAGTCCCCTCCCAAGCCAGCCACAGAGGGTGAAGTCCCT
GGAGGGGATCCCCTGGCTCAGGTGGCTGCCGGAGGGGCTCACAGCTTGGCCCTGTCTCTCAGGAGCT
GTTTTTGGCTGGGGATGAATAATGCCGGCAGCTAGGGCTCAGTGATGAAAAGATCGAGAATCTCCAT
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CACAAAGAGTGGAGGTGTGTTTACCTTTGGCGCTGGTTCTGTGGCAACTTGGACACGACTCCATGAAT
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TACAAACCCAGCAAAGTACTAGATAACTGGTGGTCTCAGGTATGCCCGAAATATTTTCATGAAGCTGGTA
AACCTCTATAAAGGTGCAGTCTTTATCTACTGAGGGGAAGAAAGACATTCTTAATCCCCTACTGTTTA
ACAATTATATCACAGCAGCTCTCAAACCTTTGGAGAAGTTATATAAGGTAATCTTAAAGTGAAGCATGT
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AGTGGCTTCTAAAGGTGTGTGGTGGCAAAGTACTTGAGCTTCCAGCCTTCCAGAACTGAGGGCTATGA
TGGTGGGGAACAGCAACTACAACCTGGAAGAAGTGAAGAGACTGCCATCTACAAGGAGATTACTCGGC
CACACATCCCCTGTAAAATAATTTGGGAAACATTTTCATGAGTTTCCATTGGAAAAGAAGAAGAAGTTT
CTCTTGTCTGACAGGCAGCGATCGGATTTCCATCTACGGCATGGCCAGTCTGCAGATTGTCATCCAGT
CCACAGCCAGCGGGGAGGAGTACTTCCCGGTGGCCCACTTGTACAACCTTCTTGACCTCCCAAGTA
CAGCAGCAAAGAGATTCTGAGTGCCCGCTGACCCAGGCCCTTGACAACATGAAGGGTTTAGTTTGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214034 representing NM_014606
Red=Cloning site Green=Tags(s)

MLCWGYWSLQGPQIGISTNLQGIIVAEQVCGFISDRSVKEVACGGNHSVFLLEDGEVYTCGLNTKGQLGHER
EGNKPEQIGALADQHIHIVACGESHSALSDRQQLFSWAGSDGQLGLMTTEDSVAVPRLIQKLNQQTIL
QVSCGNWHCLALAADGQFFTWGKNSHGQLGLGKEFPSQASPQRVRSLEGIPLAQVAAGGAHSFALSLSGA
VFGWGMNAGQLGLSDEKDRESPCHVKLLRRTQKVYYISCGEEHTAVLTKSGGVFTFGAGSCGQLGHDSMN
DEVNPRRVLELMGSEVTQIACGRQHTLAFVSSGLIYAFGCGARGQLGTGHTCNVKCPSPVKGYWAAHSG
QLSARADRFKYHIVKQIFSGGDQTFVLCSKYENYSPAVDFRTMNQAHYTSLEINDEIAVWRQKLEHNNA
NTINGVVQILSSAACWNGSFLEKKIDEHFKTSKIPGIDLNSTRVLFKLMNSQHSMILEQILNSFESCL
IPQLSSPPDVEAMRIYLILPEFPLLDQSKYYITLTIPLAMAILRLDTNPSKVLNWNWSQVCPKYFMKLV
NLKYGAVLYLLRGRKTFIPVLFNNYITAALKLEKLYKVNKVKHVEYDTFYIPEISNLVDIQEDYLMW
FLHQAGMKARPSIIQDVTLCYYPFIFDAQAKTKMLQTDALQMVAVNGANLQNVFMLLTLEPLLARSP
FLVLHVRNRLVGDALRELSIHSIDLKPLKVIKFDGEEAVDAGGVTKEFFLLLLKELLNPIYGMFTYYQ
DSNLLWFSDTCFVEHNFHLLIGITCGLAIYNSTVVDLHFPLALYKLLNVKPGLEDLKELESPTTEGRSLQE
LLDYPGEDVEETFCLNFTICRESYGVIEQKLIIPGGDNVTCKDNRQEFVDAVYVYVFQISVHEWYAFS
SGFLKVCGGKVLLELFPSELRAMMVGNSNYNWEELIETAIYKGDYSATHPTVKLFWETFEHFLEKKKKFL
LLFLTGSDRIPIYGMASLQIVIQSTASGEEYLPVAHTCYNLLDLPKYSSKEILSARLTQALDNYEGFSLA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

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_014606.3
RefSeq Size:	4894 bp
RefSeq ORF:	3153 bp
Locus ID:	8916
UniProt ID:	Q15034
Cytogenetics:	4q22.1
Domains:	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]