

Product datasheet for **MG211530**

Herc4 (BC043082) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Herc4 (BC043082) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Herc4
Synonyms:	1700056O17Rik; 4921531D01Rik; 9530080M15Rik; mKIAA1593
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211530 representing BC043082 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGTTGTGCTGGGCAATGCATCCTATGGACAAGTGGTGGGAGGAATTGATGAAGAAATGTACTAGAGCCCAGGAGAAGTACTTTTTTCGTGAACAAAAGGTCCGAGATGTAGGCTGTGGACTCAGGCACACTGTGTTTGCCTGGATGATGGGACTGTGTACACATGTGGATGAATGATCTAGGACAGCTAGGTCATGAAAAGTCCAGAAAAGAACAGAGCAGGTTGTTGCCCTGGATGCCAGAATATCGTAGCTGTTGCGTGTGGAGAAGCTCACACGTTAGCGCTGAATGACAAGGGCCAGGTGTATGCTTGGGGTCTCGACTCTGACGGACAGCTTGGCCTACAGGGATCAGAGGAATGTATCAGAGTACCCAGAAAATATAAAAGTCTTTCGGATATCCAGATAGTACAGGTTGCGTGTGGTTACTATCATTTCGCTTGCACCTTTCTAAAGCAAGTGAAGTTTTCTGTTGGGGACAGATAAAATATGGCCAGCTGGGTCTAGGCATTGATTGTCAAAGCAAACCTTACCACAGCTGATTAAGTCTTTCCTTGGAAATACCATTCATGCAAGTCGCAGCAGGAGGCCATAGTTTTGTACTCACCTTTCGGAGCTATCTTTGGATGGGACGTAACAAATTTGGTCAGCTAGGCTTAATGATGAAAATGATAGGTATGTTCCCTAATTTACTAAAGTCACTAAGATCTCAGAAAATAGTTTATATTTGTTGCGGAGAAGATCATACTGCTGCATTAAACCAAGGAAGGTGGAGTGTACCTTTGGAGCTGGGGCTATGGCCAGCTGGGTGATAATTCTACCAGTCATGAGATAAAATCCAGGAAAGTTTTGAACTCATGGAAGCATTGTTACTCAGGTCGCTGTGGAAAGGCAGCATACCTCTGCATTTGTTCTTTCAGGACGAATTTACTCCTTTGGTCTGGTGAATGGGCAGTTGGGAACTGGTTCAACCAGCAACAGAAAAAGCCCTTTCAGTGTAAAAGGAACTGGTTTTCTATAATGGACAGTGTCCACAAGATATTGGTTCTGAAGACTATTTCTGTGTCAAAGAATTTTCTCAGGTGGAGATCAAAAGCTTTTACATTAAGTCTAGTCTCAGAACTGTGGACCTCCAGATGACTTTAGATGCTCCGACCTTCCAAAGCAGATCTGGACAGTGAACGAAGCTCTGATTGAGAAATGGCTCAGCTACCCCTCTGGAAGGTTCCCTGTGGAGATAGCCAATGAGATAGATGGAACATTTTCTCATCTGGCTGCCTAAATGGAAGTTTTCTGGCTATTAGCAATGACGATCACTATAGAACAGGTACCAGATTTTCAGGGTTGATATGAACGCTGCTAGACTCTTATCCACAACTTATACAACCTGATCATCTCAGATATCTCAGCAGGTGGCAGCTAGTTTGGAAAAGAATCTA



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ATCCCTAAACTGACTAGTTCCTACCTGATGTTGAAGCTCTGAGGTTTTATCTTACCCTGCCAGAGTGTC
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 TATTTTTGACAGGTAGTGATCGGATCCCATCTTGGTATGAAGAGTCTGAAACTAGTCATCCAGTCAA
 CAGGAGGTGGTGAGAGCTATCTCCCGTTTTCCCATACCTGTTTTAATCTTCTAGATCTCCAAAATATA
 AGAGAAAAGAAACCCTCCGATGTAACCTGATCCAAGCTATTGATCACAATGAAGGCTTCAGTTAATA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG211530 representing BC043082
 Red=Cloning site Green=Tags(s)

MLCWGNASYQLGLGGIDEEIVLEPRRSDFFVNKKVRDVGCLRHTVFVLDGTVYTCGCNDLQQLGHEK
 SRKKPEQVVALDAQNIVAVACGEAHTLALNDKQVYAWGLDSDGQLGLQGSEECIRVPRNIKSLSDIQIV
 QVACGYHSLALSKASEVFCWQNKYQQLGLGIDCQKQTSPLIKSLLGIPFMQVAAGGAHSFVLTLSGA
 IFGWGRNKFQQLGLNDENDRYVPNLLKSLRSQKIVYICCGEDHTAALKEGGVFTFGAGGYQLGHNSTS
 HEINPRKVFELMGSIVTQVACGRQHTSAFVPSSGRIYSFGLGGNGQLGTGSTSNRKSPFTVKGNWFSYNG
 QCPQDIGSEDYFCVKRIFSGGDQSFSHYSSPQNCGPPDDFRCDSPSKQIWTVNEALIQKWSYPSGRFPV
 EIANEIDGTFSSSGCLNGSFLAISNDHYRTGTRFSGVDMNAARLLFHKLIQPDHPQISQVVAASLEKNL
 IPKLTSSLPDVEALRFYLTLPCEPLMSDCNNFTTIAIPFGTALVNLEKAPLKVLENWWSVLEPPLFLKIV
 ELFKEVVVHLLKLYKIGIPPSERRIFNSFLHTALKVLEILHRVNEKTGQLIQYDKFYIHEVQELIDIRND
 YINWVQQAYGVLADIPVTICTYPFVFDQAQTLLQTDVAVLQMQMAIDQHRQNVSSLFLPVIESVNPCL
 LILVVRRENIVGDAMEVLRKTKNIDYKKPLKVIFVGEDAVDAGGVRKEFFLLIMRELLDPKYGMFRYYED
 SRLIWFSDKTFEDSDLFHLIGVICGLAIYNFTIVDLHFPLALYKLLKRPKPSLDDLKELMPAVGRSMQQL
 LDYPEDDIEETFCLNFTITVENFGATEVKELVLNGADTAVNRQNRQEFVDAYVDYIFNKSVASLFDFAFHA
 GFHKVCGGKVLFFFQPNELQAMVIGNTNYDWELEKNTEYKGEYWADHPTIKIFWEVHELPLEKKKQFL
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TRTRPLE – GFP Tag – V

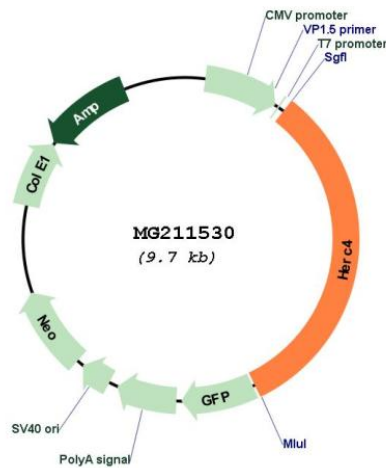
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC043082

ORF Size: 3149 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:	BC043082 , AAH43082
RefSeq Size:	3857 bp
RefSeq ORF:	3149 bp
Locus ID:	67345
Cytogenetics:	10 B4
Gene Summary:	Probable E3 ubiquitin-protein ligase involved in either protein trafficking or in the distribution of cellular structures. Required for spermatozoon maturation and fertility, and for the removal of the cytoplasmic droplet of the spermatozoon. E3 ubiquitin-protein ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfer it to targeted substrates.[UniProtKB/Swiss-Prot Function]