

Product datasheet for **RG220214**

HERC2 (NM_004667) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HERC2 (NM_004667) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HERC2
Synonyms:	D15F37S1; jdf2; MRT38; p528; SHEP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220214 representing NM_004667 Red=Cloning site Blue=ORF Green=Tags(s)

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AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220214 representing NM_004667
 Red=Cloning site Green=Tags(s)

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 LGRVIGELGEDGWIRVQWDTGSTNSYRMGKEGKYDLKLAELPAAQPSAEDSDTEDDSEAEQTERNIHT
 AMMFTSTINLLQTLCLSAGVHAEIMQSEATKTLCGLLRMLVESGTTDKTSSPNRLVYREQHRSWCTLGFV
 RSIALTPQVCGALSSPQWITLLMKVVEGHAPFTATSLQRQILAVHLLQAVLPSWDKTERARDMKCLVEKL
 FDFLGSLLTTCSSDVPLLRSTLRRRRVRPQASLTATHSSTLAEVVALRRTLHSLTQWNGLINKYINSQ
 LRSITHSFVGRPSEGAQLEDYFPDENPEVGGMLAVLAVIGGIDGRLRLGGQVMHDEFEGEVTVTRITPKG
 KITVQFSDMRTCRVCPNLQKPLPAVAFNVNLPFTEPMLSVWAQLVNLAGSKLEKHKIKKSTKQAFAGQ
 VDLDLLRCQQLKLYILKAGRALLSHQDKLRQILSQPAVQETGTVHTDDGAVVSPDLGDMSPGPPMIL
 LQQLLASATQPSVKAIFDKQELEAAALAVCQCLAVESTHPSSPGFEDCSSSEATTPVAVQHIRPARVKR
 RKQSPVPALPIVVQLMEMGFSRRNIEFALKSLTGASGNASSLPGEALVGWLLDHSDIQVTELSADTVS
 DEYSDEEVVEDVDDAAYSMSGTAVVTESTQYKRRADFLSNDDYAVYVRENIQVGMVRCRAYERVECEGD
 VGKVIKLRDGLHDLNVQCDWQKGGTYWVRYIHVELIGYPPSSSSHIKIGDKVRVKASVTTPKYKWS
 VTHQSVGVVYKAFSANGKDIIVDFPQQSHWTGLLSEMELVPSIHPGVTCDGCMFPINGSRKCRNCDDFD
 FCETCFKTKKHNRHTFGRINEPGQSAVFCGRSGKQLKRCHSSQGMMLDSWSRMVKSINVS SVKQASR
 LDGSEPCWQSSGSQGHWRLEIFPDVLVHRLKMIVDPADSSYMPSLVVVSGGNSLNNLTELKTININP
 SDTTVPLLNDCTEYHRYIEIAIKQCRSSGIDCKIHGLILLGRIRAEEDLAAPFLASDNEEEDEKGN
 GSLIRKKAAGLESAATIRTKVFWGLNDKQDQGLGKSGIKVPSFSETLSALNVVQVAGGSKSLFAVTV
 GKVYACGEATNGRLGLGSSGTVP IPRQITALLSSYVVKVAVHSGGRHATALTVDGKVSFVWGEEDGKLG
 HFSRMNCDKPRLEALKTKRIRDIACGSSHAAL TSSGELYTWGLGEYGRLGHDNTTQLKPKMVKLLG
 HRVIVQVACGRDAQTLAL TDEGLVFSWGDGDFGKLRGGGSEGCNIPQNIERLNGQVQCIECGAQFSLAL
 TKGSVVWTWKGQDYFRLGHGSDVHVRKQVVEGLRGKKIVHVAVGALHCLAVTDSQVYAWGDNDHGQQG
 NGTTTTVNRKPTLVQGLEGQKITRACGSSHSVAWTTVDVATPSVHEPVLVFTARDPLGASVYLVGVPDADS
 SAASNKISGASNSKPNRSLAKILLSLDGNLAKQQALSHILTALQIMYARDAVVGALMPAAMIAPVECP
 FSSAAPSDASAMASPMNGEECMLAVDIEDRLSPNPWQEKREIVSSEDAVTPSAVTPSAPSASARPFIPVT
 DDLGAASIIAETMTKTKEDVESQNKAAAGPEPQALDEFTSLLIADDTRVVVLLKLSVCSRAGDRGRDVL
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 EFDRCQSTERRHDPLTVMDGVNRIVSVRSGREWSWSELRI PGDELKWKFISDGSVNGWGRFTVYPI
 PAAGPKELLSDRCVLSCPSMDLVTCLDFRLNLASNRSIVPRLAASLAACAQLSALAASHRMWALQRLRK
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 VALACDLELDTLPCCAETHKAWWFRRYCMASRVAVALDKRTPLPRLFLDEVAKKIRELMADSENMDVLE
 SHDIFKREQDEQLVQWMNRRPDDWTL SAGSGTIYGWGHNHRGQLGGIEGAKVKVPTPCEALATLRPVQ
 IGGEQTLFAVTADGKLYATGYGAGGRLGIGGTEVSTPTLLESIQHVFIKKAVNSGGKHLALSSEGEV
 YSWGEAEDGKLGHNRSPCDRPRVIESLRGIEVVDVAAGGAHSACVTAAGDLYTWGKGRYGRLGHSDESD
 QLKPKLVEALQGHRVVDIACGSDAQTLCLTDDDTVWSWGDGDKLGRGGSDGCKVPMKIDSLTGLGVV
 KVECGSQFSVALTKSGAVYTWGKDYHRLGHGSDHVRPRQVQGLQGKVIATGSLHVCCTEDGEV
 YTWGDNDEGQLGDGTTNAIQRPRLVAALQGKKNRVACGSAHTLAWSTSKPASAGKLPQVPMYENHLQE
 IPIIALRNRLLLHHLSELFCPCIPMFDLEGLDETGLGPSVGFDTLRGILISQKAEAFKRVVQATMVR
 DRQHGPVVELNRIQVRSRSKGLAGPDGKSVFGQMCAMSSFGPDSLPHRVWVKVFGVESVDDCGG
 GYSESAIEICEELQNGLTPLLIVTPNGRDESGANRDCYLLSPAARAPVHSSMFRFLGVLLGIAIRTGSPL
 SLNLAEPVWKLAGMSLTIADLSEVDKDFIPGLMYIRDNEATSEEFAMSLPFTVPSASGQDIQLSSKHT
 HITLDNRAEYVRLAINYRLHEFDEQVAAVREGMARVVPVPLLSLFTGYELETMVCSPDIPLHLLKSVAT
 YKGIEPSASLIQWFWEVMEFSNTERSLFLRFVWGRTRLPRTIADFRGRDFVIQVLDKYNPPDHFLPESY

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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_004667.3 , NP_004658.2
RefSeq Size:	15351 bp
RefSeq ORF:	14505 bp
Locus ID:	8924
UniProt ID:	O95714
Cytogenetics:	15q13.1
Domains:	RCC1, ZnF_ZZ, HECT, heme_1
Protein Pathways:	Ubiquitin mediated proteolysis
Gene Summary:	This gene belongs to the HERC gene family that encodes a group of unusually large proteins, which contain multiple structural domains. All members have at least 1 copy of an N-terminal region showing homology to the cell cycle regulator RCC1 and a C-terminal HECT (homologous to E6-AP C terminus) domain found in a number of E3 ubiquitin protein ligases. Genetic variations in this gene are associated with skin/hair/eye pigmentation variability. Multiple pseudogenes of this gene are located on chromosomes 15 and 16. [provided by RefSeq, Mar 2012]