

Product datasheet for **RG219307**

HROB (NM_024032) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HROB (NM_024032) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HROB
Synonyms:	C17orf53; MCM8IP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219307 representing NM_024032
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTGCAGTTTGAGAAGCTGTTTGTGTGGAAGAGGAGTTGAAGATGAGGATTTCTGTCTGCTG
 TGGAGGATGCAGAGAACCGGTTTACTGGCTCACTGCCTGTGAATGCTGGGCGCCTGAGACCTGTCTCTTC
 TAGGCCACAGGAGACTGTGCAGGCACAGTCCTCCAGGCTGCTGCTGTACACCCCACTGCTCCCTCAGAG
 GCTTTGGCCTGCCAGACTTGGACCTCTGCCTCCCTGCCTCCAGCACGCCCACTGCTGACAGCCGTCCTAT
 CATGCATAGGAGCAGCTCCCTAAGGCCTGTCTCTACTCCAGCAGCTGGATTGGCAATCAGAGAAGAGT
 GACAGTGACAGAAGTCTCAGAGAGACAGCAAGACCTCAGTCCTCAGCCTTACACCCCTACTCACCTTT
 GAGAGCCAACAGCAGCAAGTTGGTGGCTTTGAGGGCCTGAACAAGACGAATTTGATAAAGTCTGGCAA
 GCATGGAGTTGGAGGAGCTGGCATGGAGCTGGAATGTGGAGTCAGCAGTGAGGCCATACCAATCCTGCC
 TGCCACAGCAGCGGAGGGTTTCAGTATTGGCTAAAAAGCCCGGTAGTTGATCTGAGTGGATCTTGCCAG
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 TCCAATGTAGGACTCCACGACCCCTTGAGACCTGGTGTGTGGGTACCTTCTGTTCCAACCTGCCTT
 AACAGTTCCTCACTCAGCAACTCCACTGGGAAGTCTGTCCGCAACGCTCCCTGTTCAAGCACTTCAGCCT
 CTCCAAGCTGCTAGAGGGACCATTCAGAGCAGCCCTCAAATCGTTTCCCTGTGAGCCATTCCAGTCTC
 CAAGTTCTGGTTAAGTGGCAAAGCTCATTTACCCAGACCTCGAACTCCCAACTCAAGCTGTTCTACTCC
 CTCAAGGACTAGCTCTGGATTATTTCTCGGATACCTTACAACCGCAAGCTCCAGTGTCTTCCATTGGG
 TCTCTGTGGTACCCAAAAGTCCCGAGGAGCTCTGCAGACCCCATAGTCACCAACCACTGGTGC
 AGCTAGTCACTGCTGCCAGCCGACACCCAGCAGCCACCCATCCCTCCACCGAGCCAAAACCTGCCG
 TTTCCCTGGCCAGCTGGGATCCTGCCTCACCAGCAGAGTGGGAGAAGTCTGGAGGACATCATGGTTTCC
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 CTGTGGAGGAGGATTTTGGGCGAGGGCCCTGGCTGACCATGAAATCCACGCTAGGCCTGGATGAGAGAGA
 CCCTAGCTGCTTCTGTACCTACAGCATTGTATGGTGTGCGCAAGCAGGCAGCCCTGAAGCAGCTT
 CCTAGGAACAAGGTCCCAACATGGCGGTGATGATCAAGTCCCTGACTCGGAGCACAATGGACGCCAGTG
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 TACCTCAACGTGACACCAACAACCTGGTCCATATTTACAGCCCGGATTCTGGGGATGGGAGCTTCTCA
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 CTTCAGAACAGCACAGAACCTAGAGGCAGAGGCGTCCCTGAGGAAGAACTCCCAAGCAGATGACCTG
 GATGGACTCCTGAGTGAGCTTCTGAAGACTTCTTCTGTGGGACCACTAGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

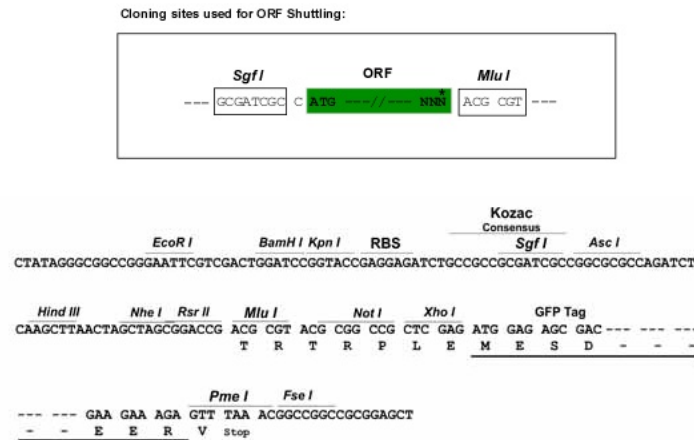
>RG219307 representing NM_024032
 Red=Cloning site Green=Tags(s)

MACSLQKLF AVEEEFEDEDFLSAVEDAENRFTGSLPVNAGRLRPVSSRPQETVQAQSSRLLLHPTAPSE
 ALGLPDLCLPASSTPSADSRPSCIGAAPLRPVSTSSWIGNQRRTVTEVLRETARPQSSALHPLLTF
 ESQQQVGGFEGPEQDEFDKVLASMELEPGMELECGVSSEAIPIPAQQREGSVLAKKARVVDLSGSCQ
 KGPVPAIHKAGIMSAQDESLDPVIQCRTPRPPLRPGAVGHLVPPTALTVPTQQLHWEVCPQRSPVQALQP
 LQAARGTIQSSPQNRFPQPFQSPSSWLSGKAHLPRPRTPNSSCSTPSRTSSGLFPRIPLQPAPVSSIG
 SPVGTGPKGPQGALQTPIVTNHLVQLVTAASRTPPQPTHPSTRAKTRRFPGPAGILPHQQSGRSLEDIMVS
 APQTPTHGALAKFQTEIVASSQASVEEDFGRGPWLTMTKSTLGLDERDPSCFLCTYSIVMVLKQAALKQL
 PRNKVPNMAVMIKSLTRSTMDASVVFKDPTGEMQGTVHRLLETCQNELKPGSVLLLKQIGVFSPLRNH
 YLNVTPNNLVHIYSPDSGDGSFLKPSQPFKDSGSFQHDVAAKPEEGFRTAQNLEAEASPEEELPEADDL
 DGLLSELPEDFFCGTSS

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024032

ORF Size: 1941 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

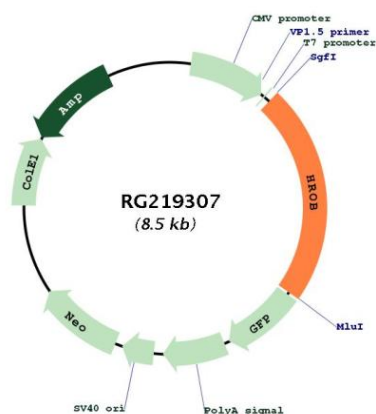
RefSeq: [NM_024032.5](#)

RefSeq Size: 2761 bp

RefSeq ORF: 1944 bp

Locus ID:	78995
UniProt ID:	Q8N3J3
Cytogenetics:	17q21.31
MW:	69.8 kDa
Gene Summary:	DNA-binding protein involved in homologous recombination that acts by recruiting the MCM8-MCM9 helicase complex to sites of DNA damage to promote DNA repair synthesis. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG219307