

Product datasheet for **RG217937**

RECQL5 (NM_001003715) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RECQL5 (NM_001003715) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RECQL5
Synonyms:	RECQ5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217937 representing NM_001003715 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCAGCCACCATAACCACCTTTCCTTTTGACCCTGAGCGGCGAGTCCGGAGTACGCTGAAGAAGGTCT
TTGGGTTTGACTCTTTAAAGACGCCTTTACAGGAGAGTGCACCATGGCTGTAGTAAAAGGTAACAAGGA
CGTCTTTGTGTGCATGCCACAGGGCAGGAAAATCCCTATGCTATCAGCTCCCTGCTCTGTTGGCCAAA
GGCATCACCATTGTAGTCTCCTCTCATTGCTTTGATTGACGACCAAGTGGACCACTTGCTAACCTAA
AGGTACGAGTAAGTTCCTGAAGCTCTGTCACAGGAAAGGAGAGTCTGCTGACCTGGA
GCGAGAAAAGCCCGAGACCAAGATTCTGTACATACCCCGAGAGATGGCAGCTTCATCCTCCTCCAGCCC
ACCTGAACTCCCTGGTGTCCCGCCACCTGCTGTCTTACTTGGTGGTGGATGAAGCTCATTGTGTTTCCC
AATGGGGGCATGACTTTCGTCCTGACTACTTGCCTGCTGGGTGCCCTGCGCTCCCGCTGGGACATGCCCC
TTGTGTGGCTCTGACCGCCACAGCCACCCACAGGTCCAAGAGGACGTGTTTGTGCCCTGCACCTGAAG
AAACCAGTTGCCATCTCAAGACTCCCTGCTCCGGGCCAACCTCTTCTATGATGTGCAATCAAGGAAC
TGATTTCTGATCCCTATGGGAACCTGAAGGACTTCTGCCTAAGGCTCTGGACAGGAGGCTGATAAAGG
GTTATCTGGCTGCGGCATTGTGTACTGCAGGACTAGAGAGGCTTGTGAACAGCTGGCCATAGAGCTCAGC
TGCAGGGGTGTGAACGCCAAGGTTACCATGCAGGGCTGAAGGCCTCTGAAAGAACGCTGGTGCAGAACG
ACTGGATGGAGGAGAAGTCCCTGTAATTGTTGCAACCATTAGTTTTGGGATGGGAGTGGATAAAGCCAA
TGTCAGGTTTGTGCGCCATTGGAATATTGCCAAGTCTATGGCTGGTACTACCAGGAGTCTGGCCGGCT
GGCAGGGATGGGAAGCCTTCTGGTGCCGTCTCTATTACTCCAGGAATGACCGGGACCAAGTCAAGCTTCC
TGATCAGGAAGGAGTAGCAAACTCCAGGAAAAGAGAGGAAACAAGCATCTGATAAAGCCACTATCAT
GGCCTTTGATGCCCTGGTACCTTCTGTGAAGAACTGGGGCGATGGGGCAGGGGCCAGGAAAGAGTCTG
AGGGCTGCTTGGTGTAGTCAGGTTGTGCCAGGCATGCGGAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217937 representing NM_001003715
 Red=Cloning site Green=Tags(s)

MSSHHTTFPDPERRVRSTLKKVFGFDSFKTPLQESATMAVVKGNKDVFCMPTGAGKSLCYQLPALLAK
 GITIVVSPLIALIQDQVDHLLTLKVRVSSLNSKLSAQERKELLADLEREKPTKILYITPEMASSSFQP
 TLNSLVSRLLSYLVDVAHCVSQWGHDFRPDYLRGALRSRLGHAPCVALTATATPQVQEDVFAALHLK
 KPVAIFKTPCFRANLFYDVQFKELISDPYGNLKDFFLCKALGQEADKGLSGCGIVYCRTREACEQLAIELS
 CRGVNAKAYHAGLKASERTLVQNDWMEEEKVPVIVATISFGMGVDKANVRFVAHWNIKSMAGYYQESGRA
 GRDGKPSWCRLYYSRNRDRQVSFLIRKEVAKLQEKRGKASDKATIMAFDALVTFCEELGRWGRGHGKSL
 RAAWCSQVVSRAHEL

TRTRPLE - GFP Tag - V

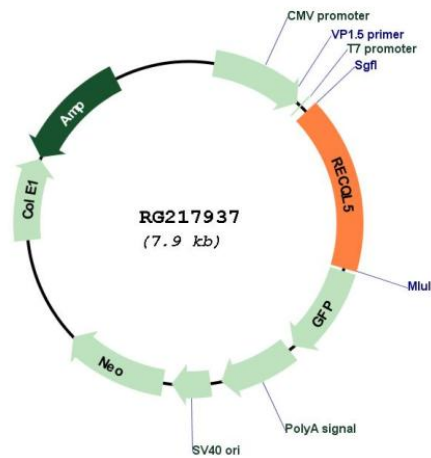
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001003715

ORF Size:	1305 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:	NM_001003715.4
RefSeq Size:	3243 bp
RefSeq ORF:	1308 bp
Locus ID:	9400
UniProt ID:	O94762
Cytogenetics:	17q25.1
Gene Summary:	The protein encoded by this gene is a helicase that is important for genome stability. The encoded protein also prevents aberrant homologous recombination by displacing RAD51 from ssDNA. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2011]