

Product datasheet for **MG205589**

Rfc4 (NM_145480) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rfc4 (NM_145480) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rfc4
Synonyms:	A1; AI894123; AU040575; RFC37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205589 representing NM_145480 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAAGCATTCTGAAAGGCACATCTGTCTGAGTCCAAAGCACAACTGACCAAGGACCGGGGACACCTG
CCACTGCAGGAAGCAGTGGAGAAACCAAGAAAGTCAAACAGTTCCTTGGGTGGAAAAATACCGTCCAAA
GTGTGTGGATGAAGTGGCTTCCAGGACGAAGTGGTTCAGTCTGAGAAAGTCCCTAGAAGGAGCTGAC
CTTCTAATCTCTTGTCTATGGGCCACCTGGAAGTGGCAAAACATCCACCATTTTGGCAGCAGCTAGAG
AGCTCTTTGGGCCTGAAGTCTTTTCGATTAAGAGTCTTGGATTAATGCATCTGATGAACGTGGAATACA
AGTAGTCCGAGAGAAAGTAAAAATTTGCTCAGTAACTGTATCAGGAAGTCCGTCAGATGGGAAGCCA
TGTCTCCCTTTAAGATTGTAATTCTGGATGAAGCAGATTCGATGACTTCAGCTGCTCAGGCAGCTTTAA
GGCGTACCATGGAAAAAGAAATCAAAAACAACAGATTCTGCCTCATCTGTAAGTATGTCAGTCAATAAT
TGAACCCCTCACTTCTAGATGTTCAAAATTCGCTTCAAGCCTCTGTCAGATAAGATTCAACAGGAGCGA
TACTGGATATTGCTGAGAAGGAAATGTCAAAATGGCAATGAGGAAATAGCGTATCTTGTAAAGATAT
CAGAAGGAGATTTACGGAAAGCCATCACATTTCTCAGAGTGCCACTCGACTAACAGGTGGAAGGAAAGT
CTCTGAAGATGTGATCACAGACATTGCTGGGGTAATACCAGCTGCAACCATTGATGGAATATTCAGTCA
TGTCAGAGTGGCTTTTTGACAACTAGAAGCTGTGGTAAAGAACCTCATAGATGAAGGACATGCAGCTA
CTCAGCTTGTCAATCAACTCATGATGCAATTATAGAAAATGAAAATCTGTCTGATAAACACAAGTCCAT
TATCACAGAGAACTTGCTGAAGTAGACAAGTCTTGGCAGATGGTGCAGATGAACACCTGCAGTTGATG
AGCCTTTGTGCAACTGTGATGCAGCAGCTAACTCAGAAGTGT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205589 representing NM_145480
 Red=Cloning site Green=Tags(s)

MQAFLKGTSSVSAKAQLTKDRGTPATAGSSGETKKVKPVPVWVEKYRPKCVDEVAFQDEVVAVLRKSLEGAD
 LPNLLFYGPPGTGKTSTILAAARELFGPELFLRLVLELNASDERGIQVVREKVKNFQALTVSGSRSDGKP
 CPPFKIVILDEADSMTSAAQAALRRTMEKESKTRFCLICNYVSRIEPLTSRCSKFRFKPLSDKIQQER
 LLDIAEKENVKIGNEEIAYLVKISEGDLRKAITFLQSATRLTGGKEVSEDVITDIAGVIPAATIDGIFTA
 CHSGSFDKLEAVVKNLIDEGHAATQLVNQLHDAI IENENLSDKHKSIIITEKLAEVDKCLADGADEHLQLM
 SLCATVMQQLTQNC

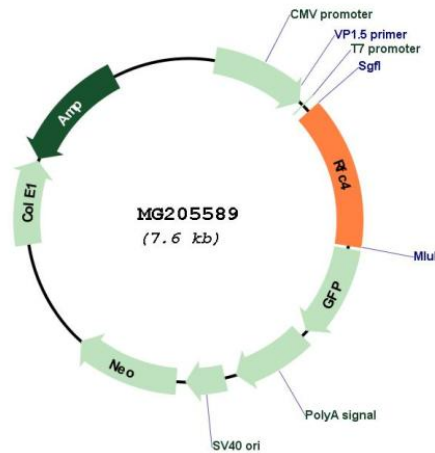
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_145480

ORF Size:	1092 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_145480.1 , NP_663455.1
RefSeq Size:	1231 bp
RefSeq ORF:	1095 bp
Locus ID:	106344
UniProt ID:	Q99J62
Cytogenetics:	16 B1
Gene Summary:	The elongation of primed DNA templates by DNA polymerase delta and epsilon requires the action of the accessory proteins proliferating cell nuclear antigen (PCNA) and activator 1. This subunit may be involved in the elongation of the multiprimed DNA template (By similarity). [UniProtKB/Swiss-Prot Function]