

Product datasheet for **RG233042**

NOL10 (NM_001261394) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOL10 (NM_001261394) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NOL10
Synonyms:	PQBP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG233042 representing NM_001261394
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCAGGTCTCCAGCCTCAATGAGGTGAAGATTTACAGCCTCAGCTGCGGCAAGTCCCTTCTGAGTGGC
 TTTCTGATAGGAAGAAGAGAGCGCTACAGAAGAAAGATGTAGATGTCCGTAGGAGAATTGAACCTATTCA
 GGACTTTGAAATGCCTACTGTGTGTACCACTATTAAGGTGTCAAAAGATGGACAGTACATTTTAGCAACT
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 ATTCAGAAGTTGTACCTTTGAAATTTGTCTGATGACTACTCAAAGATTGTCTTCTACATAATGATAG
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 GGAGGCTGAGAACTGCATCGACAAGAAAGGAAAGACTCCGTCGTTTCGGCCGGACACCTGAAGTCAAGA
 CACAAAAGAGGACGGTCGTTTCAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG233042 representing NM_001261394
 Red=Cloning site Green=Tags(s)

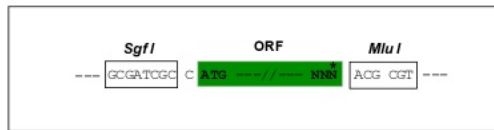
MQVSSLNEVKIYSLSCGKSLPEWLSDRKKRALQKKDQVRRRIELIQDFEMPTVCTTIKVS KDQYILAT
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 GFFMDIRLYHKV KLMVNPFA YEEYRKDKIRQKIEETRAQRVQLKKLPKVNKELALKLIEEEEEKQKSTWK
 KKVKSLPNILTDRFKVMFENPDFQVDEESEEFRLNPLVSKISEKRKKKLRLLEQQELREKEEEEEPEG
 KPSDAESSESSDDEKAWVEEVRQRRLQEEKVKRQERLKEDQQTVLKPQFYIEKAGEEFSFKDSATK
 QKLMNKTLEDRLKIEAKNGTLSVSDTTVGSKQLTFTLKRSEQKKQAEKLRQERKRLRRSAGHLKSR
 HKRGRSFH

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGCGCGCGGAATTCGCTGACTGGATCCGGTACCGAGAGATCTGCCGCCGATCGCCGCCGCGCAGATCT
 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGTCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---
 T R T R P L E M E S D - - -
 PmeI FseI
 --- GAA GAA AGA GTT TAA ACGCCGGCCGCGGAGCT
 - - E E R V Stop

ACCN: NM_001261394

ORF Size: 1914 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.

RefSeq: [NM_001261394.1](#), [NP_001248323.1](#)

RefSeq Size: 3365 bp

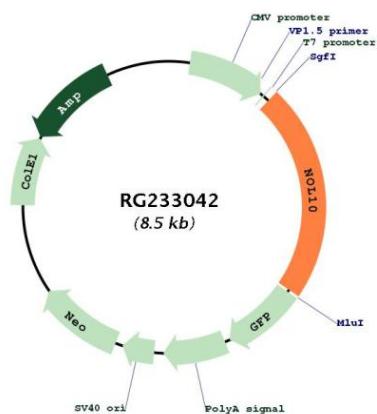
RefSeq ORF: 1917 bp

Locus ID: 79954

UniProt ID: [Q9BSC4](#)

Cytogenetics: 2p25.1

Product images:



Circular map for RG233042