

Product datasheet for **RG200582**

RPP20 (POP7) (NM_005837) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RPP20 (POP7) (NM_005837) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: POP7
Synonyms: 0610037N12Rik; RPP2; RPP20
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200582 representing NM_005837
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAGAAAACCGAGAGCCCCGCGGTGCTGTGGAGGCTGAACTGGATCCAGTGAATACACCCTTAGGA
AAAGGCTTCCCAGCCGCCTGCCCGGAGACCCAATGACATTTATGTCAACATGAAGACGGACTTTAAGGC
CCAGCTGGCCCGCTGCCAGAAGCTGCTGGACGGAGGGCCGGGGTCAAGACGCGTCTGAGATCTAC
ATTCACGGCTTGGCCTGGCCATCAACCGGCCATCAACATCGCGCTGCAGCTGCAGGCGGGCAGCTTCG
GGTCTTGCAGGTGGCTGCCAATACCTCCACCGTGGAGCTTGTTGATGAGCTGGAGCCAGAGACCGACAC
ACGGGAGCCACTGACTCGGATCCGCAACAACCTAGCCATCCACATCCGAGTCTTCAGGGTACACCCAAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200582 representing NM_005837
Red=Cloning site Green=Tags(s)
MAENREPRGAVEAELDPVEYTLRKRLPSRLPRRPNDIYVNMKTDFAQLARCQKLLDGGARGQNACSEIY
IHGLGLAINRAINIALQLQAGSFGSLQVAANTSTVELVDELEPETDTREPLTRIRNNSAIHIRVFRVTPK

SGPTRRRLE - GFP Tag - V

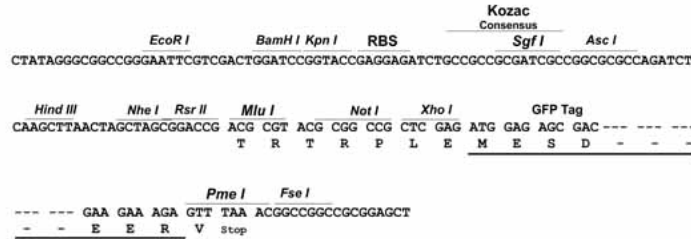
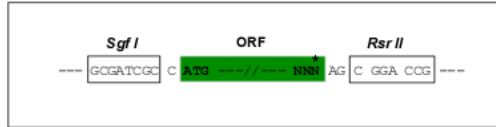
Restriction Sites: Sgfl-RsrII



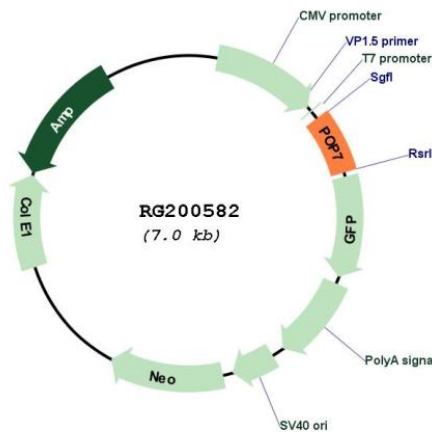
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Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_005837

ORF Size: 420 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:	<u>NM_005837.3</u>
RefSeq Size:	949 bp
RefSeq ORF:	423 bp
Locus ID:	10248
UniProt ID:	<u>O75817</u>
Cytogenetics:	7q22.1
Protein Families:	Stem cell - Pluripotency
Gene Summary:	Component of ribonuclease P, a ribonucleoprotein complex that generates mature tRNA molecules by cleaving their 5'-ends (PubMed:9630247, PubMed:30454648). Also a component of the MRP ribonuclease complex, which cleaves pre-rRNA sequences (PubMed:28115465). [UniProtKB/Swiss-Prot Function]