

Product datasheet for **RG203434**

PNO1 (NM_020143) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNO1 (NM_020143) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PNO1
Synonyms:	KHRBP1; RRP20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203434 representing NM_020143 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAATCCGAAATGGAAACGCAGAGCGCCAGGGCAGAGGAGGGCTTTACCCAGGTCACCCGCAAGGGTG
 GCCGACGGGCGAAGAAACGACAGGCTGAACAGCTGTCCGACGAGGAGAGGGCGGGGATGCGGGCCGCAT
 GGACACAGAGGAGGCCAGGCCGGCGAAGAGGCCCGTCTTCCACCCCTCTGTGGGACGGGCTCCTGAGT
 GGGAAAGAAGAAACAAGGAAATTCAGTCCCAGCTAACAGATACACACCATTGAAAGAAAACCTGGATGA
 AGATATTTACTCCTATTGTGAACATTTGGGACTTCAGATACGCTTTAACTTGAAATCAAGGAATGTAGA
 AATCAGGACTTGTAAAGAAACCAAGGATGTTAGTGCTCTGACAAAAGCAGCTGATTTTGTGAAAGCTTTT
 ATTCTCGGCTTTTCAGGTGGAGGATGCACTTGCCCTCATCAGGTTGGATGACCTCTTCCTAGAGTCTTTTG
 AAATTACAGATGTTAAACCCCTAAAGGGAGACCATCTATCCAGGGCAATAGGAAGAATCGCTGGCAAAGG
 AGGAAAAACCAATTCACCATAGAGAATGTGACACGGACAAGGATAGTTTTGGCTGATGTGAAAGTTCAC
 ATCCTTGGCTCCTTCCAAATATCAAGATGGCAAGAACTGCCATTTGCAACCTAATCTTGGGAAATCCTC
 CTTCCAAGGTTTATGGCAATATTCGAGCTGTGGCTAGCAGATCAGCAGATCGATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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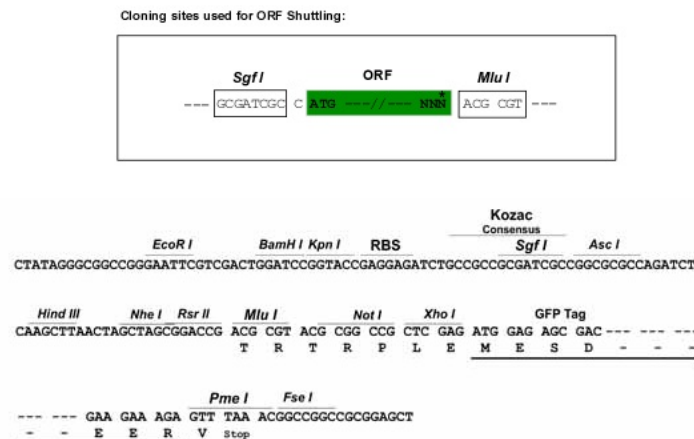
Protein Sequence: >RG203434 representing NM_020143
 Red=Cloning site Green=Tags(s)

MESEMETQSARAEEGFTQVTRKGGRRAKKRQAEQLSAAGEGGDAGRMDTEEARPAKRPVFPPLCGDGLLS
 GKEETRKIPVPANRYTPLKENWMKIFTPIVEHLGLQIRFNLKSRNVEIRTCKETKDVSAITKAADFVKAF
 ILGFQVEDALALIRLDDLFLSEFEITDVKPLKGDHLSRAIGRIAGKGGTKFTIENVTRTRIVLADVKVH
 ILGSFQNIKMARTAICNLILGNPPSKVYGNIRAVASRSADRF

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020143

ORF Size: 756 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_020143.4](#)

RefSeq Size: 1994 bp

RefSeq ORF: 759 bp

Locus ID: 56902

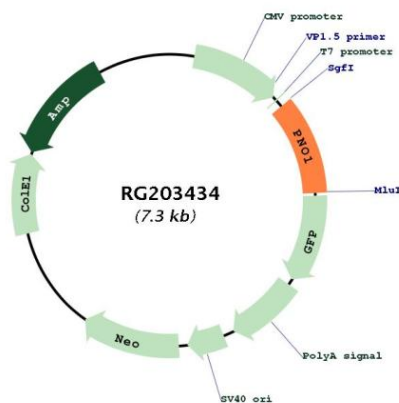
UniProt ID: [Q9NRX1](#)

Cytogenetics: 2p14

Domains: KH

Gene Summary: Positively regulates dimethylation of two adjacent adenosines in the loop of a conserved hairpin near the 3'-end of 18S rRNA (PubMed:25851604).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG203434