

Product datasheet for **RC203434**

PNO1 (NM_020143) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNO1 (NM_020143) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PNO1
Synonyms:	KHRBP1; RRP20
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC203434 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAATCCGAAATGAAACGCAGAGCGCCAGGGCAGAGGAGGGCTTTACCCAGGTCACCCGCAAGGGTG
GCCGACGGCGAAGAAACGACAGGCTGAACAGCTGTCCGCAGCAGGAGAGGGCGGGGATGCGGGCCGCAT
GGACACAGAGGAGGCCAGGCCGCGAAGAGGCCCGTCTTCCACCCTCTGTGGGACGGGCTCCTGAGT
GGGAAAGAAGAAACAAGGAAAATTCAGTCCCAGCTAACAGATACACACCATTGAAAGAAAAGTGGATGA
AGATATTTACTCCTATTGTGGAACATTTGGGACTTCAGATACGCTTTAACTTGAAATCAAGGAATGTAGA
AATCAGGACTTGTAAAGAAACCAAGGATGTTAGTGCTCTGACAAAAGCAGCTGATTTTGTGAAAGCTTTT
ATTCTCGGCTTTCAGGTGGAGGATGCACTTGCCCTCATCAGGTTGGATGACCTCTTCTAGAGTCTTTTG
AAATTACAGATGTTAAACCCCTAAAGGGAGACCATCTATCCAGGGCAATAGGAAGAATCGCTGGCAAAGG
AGGAAAACCAAATTCACCATAGAGAATGTGACACGGACAAGGATAGTTTTGGCTGATGTGAAAGTTCAC
ATCCTTGGCTCCTTCCAAAATATCAAGATGGCAAGAAGTCCATTTGCAACCTAATCTTGGGAAATCCTC
CTTCCAAGTTTATGGCAATATTCGAGCTGTGGCTAGCAGATCAGCAGATCGATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203434 protein sequence
 Red=Cloning site Green=Tags(s)

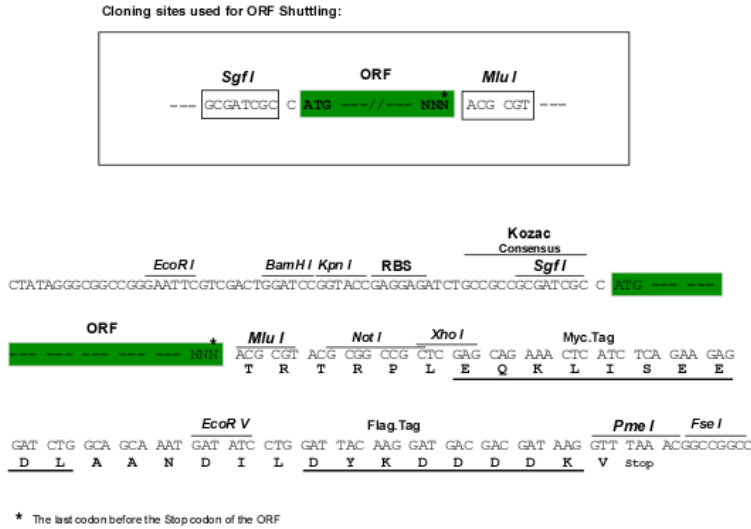
MESEMETQSARAEEGFTQVTRKGGRRAKKRQAEQLSAAGEGGDAGRMDTEEARPAKRPVFPPLCGDGLLS
 GKEETRKIPVPANRYTPLKENWMKIFFTPIVEHLGLQIRFNLKSRNVEIRTKETKDVLSALTKAADFVKAF
 ILGFQVEDALALIRLDDLFLSEFEITDVKPLKGDHLSRAIGRIAGKGGKTKFTIENVTRTRIVLADVVKVH
 ILGSFQNIKMARTAICNLILGNPPSKVYGNIRAVASRSADRF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

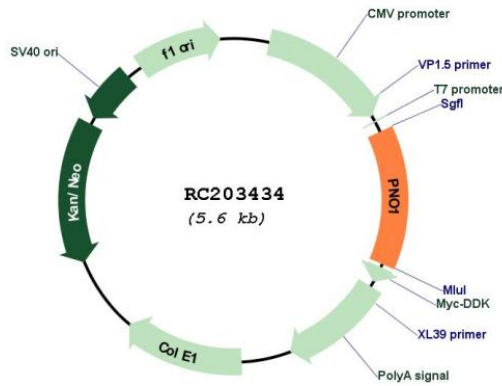
Chromatograms: https://cdn.origene.com/chromatograms/mk6413_b10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

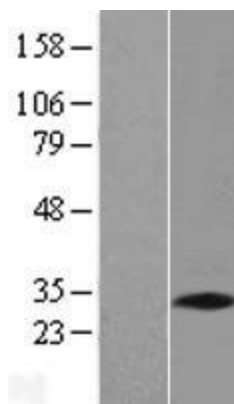


Plasmid Map:

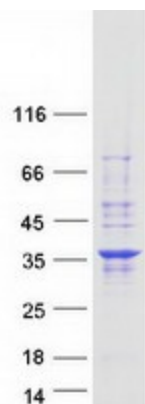


ACCN: NM_020143

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:	<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_020143.4
RefSeq Size:	1994 bp
RefSeq ORF:	759 bp
Locus ID:	56902
UniProt ID:	Q9NRX1
Cytogenetics:	2p14
Domains:	KH
MW:	27.9 kDa
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:

Western blot validation of overexpression lysate (Cat# [LY412632]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203434 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PNO1 protein (Cat# [TP303434]). The protein was produced from HEK293T cells transfected with PNO1 cDNA clone (Cat# RC203434) using MegaTran 2.0 (Cat# [TT210002]).