

Product datasheet for **RG207514**

NOP58 (NM_015934) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOP58 (NM_015934) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NOP58
Synonyms:	HSPC120; NOP5; NOP5/NOP58
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207514 representing NM_015934
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTGGTCTGTTTGAACGTCTGTGGGTTACGCCATCTTTAAGTTCTAAATGAGAAGAACTTCAAG
 AGTTGATAGTTTATGGAAGAATTTGAACTCCAGAGAAAGCAAACAAAATAGTAAAGCTAAAACATTT
 TGAAAAATTTAGGATACAGCAGAAGCATTAGCAGCATTACAGCTCTGATGGAGGGCAAATCAATAAG
 CAGCTGAAAAAGTTCTGAAGAAAATAGTAAAAGAAGCCCATGAACCGCTGGCAGTAGCTGATGCTAAAC
 TAGGAGGGGTCATAAAGGAAAAGCTGAATCTCAGTTGTATCCATAGTCTGTTGTTAATGAACCTTATGAG
 AGGAATTCGTTACAAAATGGATGGATTAATCCCTGGGGTGAACCCAGTGAATGGCAGCTATGTGTCTT
 GGATTGGCTCACAGCCTGTCTCGATATAGATTGAAGTTTAGCGCTGATAAAGTAGACACAATGATTGTTC
 AGGCAATTTCTTGTAGATGACTTGGATAAAGAATAACAACACTACATTATGCGATGTAGAGAATGGTA
 TGCTGGCATTTCCTGAATTAGGAAAAATTTTTCAGATAATTTAACATACTGCAAGTGTTCACAGAAA
 GTTGGCGATAGGAAGAACTATGCCTCTGCCAAGCTTTCTGAGTTGCTGCCAGAAGAAGTTGAAGCAGAAG
 TGAAGCAGCTGCAGAGATATCAATGGGAACAGAGGTTTCAGAAGAAGATATTTGCAATATCTGCATCT
 TTGACCCAGGTGATTGAAATCTCTGAATATCGAACCAGCTCTATGAATATCTACAAAATCGAATGATG
 GCCATTGCACCCAATGTTACAGTCATGGTTGGGAATTAGTTGGAGCACGGCTTATTGCTCATGCAGGTT
 CTCTTTTAAATTTGGCCAAGCATGCAGCTTCTACCGTTCAGATTCTTGGAGCTGAAAAGGCACCTTTTCAG
 AGCCCTCAAATCTAGACGGGATACCCCTAAGTATGGTCTCATTATCATGCTTCACTCGTGGCCAGACA
 AGTCCCAACACAAAGGAAAGATTTCTCGAATGCTGGCAGCCAAAACCGTTTTGGCTATCCGTTATGATG
 CTTTTGGTGAGGATTCAAGTTCTGCAATGGGAGTTGAGAACAGAGCCAAAATAGAGGCCAGGTTGAGAAC
 TTTGGAAGACAGAGGGATAAGAAAAATAAGTGGAACAGGAAAAGCATTAGCAAAAACAGAAAAATATGAA
 CAAAAAGTGAAGTGAAGACTTACGATCCTTCTGGTGACTCCACACTTCAACCTGTTCTAAAAACGCA
 AAATAGAACAGGTAGATAAAGAGGATGAAATTAAGTAAAGGAAAGCCAAAAGCAAGATTAAGTTAA
 AGTTGAAGAAGAGGAAGAAGAAAAAGTGGCAGAAGAAGAACAACATCTGTGAAGAAGAAGAAGAAAAGG
 GGTAAAAAGAACACATTAAGGAAGAACCCTTCTGAGGAAGAACCATGTACCAGCACAGCAATTGCTA
 GTCCAGAGAAAAAGAAGAAAAAGAAAAAAGAGAGAGAACGAGGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207514 representing NM_015934
 Red=Cloning site Green=Tags(s)

MLVLFETSVGYAIFKVLNEKKLQEVDSLWKEFETPEKANKIVKLKHFQDTAEALAAFTALMEGKINK
 QLKVKLVKIVKEAHEPLAVADAKLGGVIKEKLNLSCHSPVVELMRGIRSQMDGLIPGVEPREMAAMCL
 GLAHSLSRYRLKFSADKVDTMIVQAIISLDDLDKELNLYIMRCREWYGHFPELGKIIISDNLTYCKLQK
 VGDRKNYASAKLSELLPEEVEAEVKAEEISMGTVESEEDICNIIHLCTQVIEISEYRTQLYEYLQNRMM
 AIAPNVTVMGELVGARLIAHAGSLLNLAKHAASTVQILGAEKALFRALKSRDTPKYGLIYHASLVGQT
 SPKHKGKISRMLAAKTVLAIRYDAFGEDSSAMGVENRAKLEARLRTLEDGRIRKISGTGKALAKTEKYE
 HKSEVKTYDPSGDSTLPTCSKKRRIEQVDKEDEITEKKAKKAKIKVKVEEEEEKVAEEEEETSVKKKKR
 GKKKHIKEEPLSEEPCTSTAIASPEKVKKKKKKRENE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_015934

ORF Size: 1587 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_015934.5](#)

RefSeq Size: 1979 bp

RefSeq ORF: 1590 bp

Locus ID: 51602

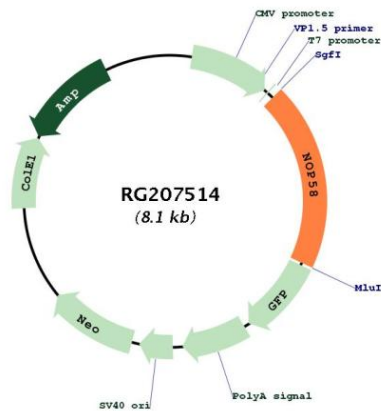
UniProt ID: [Q9Y2X3](#)

Cytogenetics: 2q33.1

Domains: Nop

Gene Summary: The protein encoded by this gene is a core component of box C/D small nucleolar ribonucleoproteins. Some box C/D small nucleolar RNAs (snoRNAs), such as U3, U8, and U14, are dependent upon the encoded protein for their synthesis. This protein is SUMOylated, which is necessary for high affinity binding to snoRNAs. [provided by RefSeq, Nov 2015]

Product images:



Circular map for RG207514