

Product datasheet for **RG223350**

C16orf88 (KNOP1) (NM_001012991) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C16orf88 (KNOP1) (NM_001012991) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C16orf88
Synonyms:	101F10.1; C16orf88; FAM191A; TSG118
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG223350 representing NM_001012991
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCACCAAGACACACAAAGTAGACCTTGGGCTCCAGAGAAGAAAAAGAAGAAAGTGGTCAAAG
 AACCAGAGACTCGATACTCAGTTTTAAACAATGATGATTACTTTGCTGATGTTTCTCCTTTAAGAGCTAC
 ATCCCCCTCTAAGAGTGTGGCCATGGGCAGGCACCTGAGATGCCTCTAGTGAAGAAAAAGAAGAAAA
 AAGAAGGGTGTACGACCCCTTTCGAGGAGCATGTAGAACCTGAGACCACGCTGCCTGCTAGACGGACAG
 AGAAGTCACCCAGCCTCAGGAAGCAGGTGTTTGGCCACTTGGAGTTCTCAGTGGGGAAAAAGAAAAATAA
 GAAGTCACCTCTAGCCATGTCCCATGCCTCTGGGGTGAACCTCCCGAGACCCTAGACAGGGTGAAGAG
 GAAACCAGAGTTGGCAAGAAGCTCAAAAAACACAAGAAGGAAAAAAGGGGGCCAGGACCCACAGCCT
 TCTCGTCCAGGACCCTTGGTTCTGTGAGGCCAGGGAGGCCAGGGATGTTGGGGACACTTCTCAGTGGG
 GAAGAAGGATGAGGAACAGGCAGCCTTGGGGCAGAAACGGAAGCGGAAGCCCCAGAGAACACAATGGG
 AAGGTGAAGAAGAAAAAATCCACCAGGAGGAGATGCCCTCCAGGCCACTCCAAGCCTCCAGGT
 CCATGGAGAGCAGCCCTAGGAAAGGAAGTAAAAAGAAGCCAGTCAAAGTTGAGGCTCCGGAATACATCCC
 CATAAGTGATGACCCTAAGGCCTCCGCAAGAAAAAGATGAAGTCAAAAAAGAAGGTAGAGCAGCCAGTC
 ATCGAGGAGCCAGCTCTGAAAAGGAAGAAAAAGAAGAGGAAAGAGAGTGGGGTAGCAGGAGACCCTT
 GGAAGGAGGAAACAGACACGGACTTAGAGGTGGTGTGGAAAAAAGGCAACATGGATGAGGCGCACAT
 AGACCAGGTGAGGCGAAAGGCCCTTGCAAGAAGAGATCGATCGCGAGTCAGGCAAAACGGAAGCTTCTGAA
 ACCAGGAAGTGGACGGGAACCCAGTTTGGCCAGTGGGATACTGCTGGTTTGTGAGAACGAGGACCAAAAC
 TGAAATTTCTCAGACTTATGGGTGGCTTCAAAACCTGTCCCCTTCGTTTCAGCCGCCCCGCCAGCAGCAT
 TGCAAGGCCCAACATGGCCCTCGGCAAGAAGCGGCTGACAGCCTGCAGCAGAATCTGCAGCGGGACTAC
 GACCGGGCCATGAGCTGGAAGTACAGCCGGGGAGCCGGCCTCGGCTTCTCCACCGCCCCCAACAAGATCT
 TTTACATTGACAGGAACGCTTCCAAGTCAGTCAAGCTGGAAGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223350 representing NM_001012991
 Red=Cloning site Green=Tags(s)

MITKTHKVDLGLPEKKKKKKVVKPEPTRYSVLNDDYFADVSPLRATSPSKSVAHQAPEMPLVKKKKKK
 KKGVSTLCEEHVEPETTLPARRTEKSPSLRKQVFGHLEFLSGEKKNNKSPLAMSHASGVKTSPPDPRQGE
 ETRVGKKLKKHKKEKKGAQDPTAFSVQDPWFCEAREARDVGDTCVGGKDEEQAALGQKRKRKSPREHNG
 KVKKKKKIHQEGDALPGHSKPSRSMESSPRKGSKKKPKVKEAPEYIPIISDDPKASAKKKMKSKKKVEQPV
 IEEPALKRKKKKRKESGVAGDPWKEETDLDLEVVLEKKGNMDEAHIDQVRRKALQEEIDRESGKTEASE
 TRKWTGTQFGQWDTAGFENEDQKLKFLRLMGGFKNLSPSFSRPASTIARPNMALGKKAADSLQNLQRDY
 DRAMSWKYSRGAGLGFSTAPNKIFYIDRNASKSVKLED

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001012991

ORF Size: 1374 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_001012991.3](#)

RefSeq Size: 1974 bp

RefSeq ORF: 1377 bp

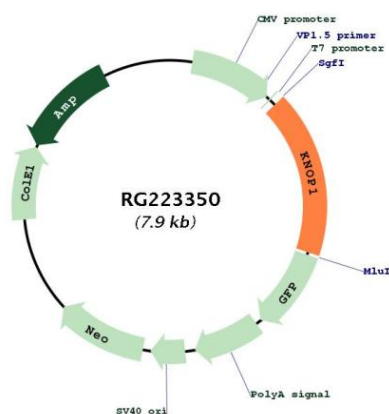
Locus ID: 400506

UniProt ID: [Q1ED39](#)

Cytogenetics: 16p12.3

Gene Summary: The protein encoded by this gene is a nucleolar protein that interacts with zinc finger 106 protein. The encoded protein has several of the same characteristics as nucleostemin and may be involved in testis development. [provided by RefSeq, Feb 2017]

Product images:



Circular map for RG223350