

## Product datasheet for **RG239378**

### **NOLC1 (NM\_001284388) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NOLC1 (NM_001284388) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NOLC1
Synonyms:	NOPP130; NOPP140; NS5ATP13; P130; Srp40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG239378 representing NM\_001284388.  
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGGACGCCGGCATTCCGCCGCTGGTCCCAGCGACCTGTATCCCCTCGTGCTCGGCTTCTGCGC
GATAACCAACTCTCAGAGGTGGCCAATAAGTTCGCCAAAGCGACAGGAGCTACACAGCAGGATGCCAAT
GCCTCTTCCCTCTTAGACATCTATAGCTTCTGGCTCAAGTCTGCCAAGGTCCAGAGCGAAAGTTACAG
GCAAAATGGACCAGTGGCTAAGAAAAGCTAAGAAGAAGGCCTCATCCAGTGACAGTGAGGACAGCAGCGAG
GAGGAGGAGGAAGTTCAAGGGCCTCCAGCAAAGAAGGCTGCTGTACCTGCCAAGCGAGTCGGTCTGCCT
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CCTAAAAAGCAAGTTGTGGCCAAGGCCCAAGTGAAGCAGCTACCACCCCTACCCGGAAGAGTTCTAGC
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GCCCCCAAGCAACCTGTGGCGGTGGCCAGAAGCTTCTGACGAGAAAGGCTGACAGCAGCTCCAGTGAG
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GTGGATTACAGATTGCGGACAACCTCTTTGATGCCAAGCGAGGTGCAGCCGGAGACTGGGGAGAGCGGA
GCCAATCAGGTTTTGAAGTTCACCAAAGGCAAGTCTTTCCGGCATGAGAAAACCAAGAAGAAGCGGGGC
AGCTACCGGGGAGGCTCAATCTCTGTCCAGTCAATTCTATTAAGTTTGACAGCGAG
ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG239378  
 Blue=ORF Red=Cloning site Green=Tag(s)

MADAGIRRVPVSDLYPLVLGFLRDNLSEVANKFAKATGATQQDANASSLLDIYSFWLKSAPVPERLQ  
 ANGPVAKKAKKKASSDSEDSSEEEEEVQPPAKKAAVPAKRVGLPPGKAAAKASESSSSESSDDDDDE  
 EDQKKQPVQKGVKPKAKAAKAPPKAKSSDSDSDSSEDEPPKNQPKIPTVTVKAQTKAPPKPARAAP  
 KIANGKAASSSSSSSSSSDSEEEKAAATPKKVWITITSVRAETVPKKQVAKAPVKAATTPTRKSSS  
 SEDSSDEEEQKPKMKNKPGYSSVPPPSAPPPKSLGTQPPKAVEKQQPVESEDSSDESSESSEE  
 EKKPPTKAVVSKATTKPPPAKAAEASSDSDSDSSEDEAPSKPAGTTKNSSNKPAVTTKSPAVKPA  
 APKQPVGGGQKLLTRKADSSSEEESSSSEEEKTKMVATTKPKATAKAAALSLPAKQAPQGRDSSSDS  
 DSSSEEEEEKTSKSAVKKPKQK VAGGAAPSKPASAKKGAESSNSSSSDSSSEEEEEKLGKGSRPQ  
 APKANGTSALTAQNGKAAKNSEEEEEKKAAVVSKSGSLKRRKQNEAAKEAETPQAKKIKLQTPNTF  
 PKRKKGEKRASSPFRRVREEIEIVDSRVADNSFDAKRGAAAGDWGERANQVLKFTKGSFRHEKTKKRG  
 SYRGGISVQVNSIKFDSE  
 TRTRPLEMESDEGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPE  
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHP SILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001284388

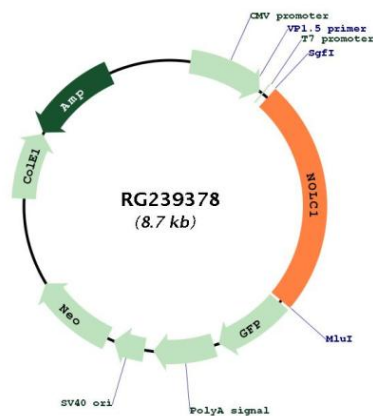
**ORF Size:** 2127 bp

**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.

<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001284388.1</a> , <a href="#">NP_001271317.1</a>
<b>RefSeq Size:</b>	3977 bp
<b>RefSeq ORF:</b>	2130 bp
<b>Locus ID:</b>	9221
<b>UniProt ID:</b>	<a href="#">Q14978</a>
<b>Cytogenetics:</b>	10q24.32
<b>Protein Families:</b>	Stem cell - Pluripotency
<b>MW:</b>	75.2 kDa
<b>Gene Summary:</b>	Nucleolar protein that acts as a regulator of RNA polymerase I by connecting RNA polymerase I with enzymes responsible for ribosomal processing and modification (PubMed:10567578, PubMed:26399832). Required for neural crest specification: following monoubiquitination by the BCR(KBTBD8) complex, associates with TCOF1 and acts as a platform to connect RNA polymerase I with enzymes responsible for ribosomal processing and modification, leading to remodel the translational program of differentiating cells in favor of neural crest specification (PubMed:26399832). Involved in nucleologenesis, possibly by playing a role in the maintenance of the fundamental structure of the fibrillar center and dense fibrillar component in the nucleolus (PubMed:9016786). It has intrinsic GTPase and ATPase activities (PubMed:9016786).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG239378