

Product datasheet for **RG226591**

NONO (NM_001145410) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NONO (NM_001145410) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NONO
Synonyms:	MRXS34; NMT55; NRB54; P54; P54NRB; PPP1R114
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226591 representing NM_001145410
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGAGTAATAAACTTTTAACTTGGAGAAGCAAACCATACTCCAAGAAAGCATCATCAACATCACC
 ACCAGCAGCAGCACCACCAGCAGCAACAGCAGCAGCCGCCACCACGCCAATACCTGCAAATGGGCAACA
 GGCCAGCAGCAAAATGAAGGCTTGACTATTGACCTGAAGAATTTAGAAAACCAGGAGAGAAGACCTTC
 ACCCAACGAAGCCGTCCTTTTGTGGAAATCTTCTCCCGACATCACTGAGGAAGAAATGAGGAACTAT
 TTGAGAAATATGGAAGGCAGGCGAAGTCTTATTATAAGGATAAAGGATTTGGCTTTATCCGCTTGA
 AACCCGAACCCTAGCGGAGATTGCCAAGTGGAGCTGGACAATATGCCACTCCGTGGAAAGCAGTGCCT
 GTGCGCTTTGCCTGCCATAGTGCATCCCTACAGTTCGAAACCTCCTCAGTATGTGTCCAACGAACTGC
 TGAAGAAGCCTTTCTGTGTTGGCCAGGTAGAGAGGGCTGTAGTCATTGTGGATGATCGAGGAAGGCC
 CTCAGGAAAAGCATTGTTGAGTCTCAGGGAAGCCAGCTGCTCGAAAGCTCTGGACAGATGCAGTGAA
 GGCTCCTTCTGTGTAACCAATTTCTCTGCTGTGACTGTGGAGCCATGGACCAGTTAGATGATGAAG
 AGGGACTTCCAGAGAAGCTGGTTATAAAAAACCAGCAATTTACAAAGAACGAGAGCAGCCACCCAGATT
 TGCACAGCCTGGCTCCTTTGAGTATGAATATGCCATGCGCTGGAAGGCACTCATTGAGATGGAGAAGCAG
 CAGCAGGACCAAGTGGACCGCAACATCAAGGAGGCTCGTGAGAAGCTGGAGATGGAGATGGAAGTGCAC
 GCCATGAGCACCAGGTATGCTAATGAGACAGGATTTGATGAGGCGCAAGAAGAACTTCGGAGGATGGA
 AGAGCTGCACAACCAAGAGGTGCAAAAACGAAAGCAACTGGAGCTCAGGCAGGAGGAAGAGCGCAGGCGC
 CGTGAAGAAGAGATGCGGCGCAGCAAGAAGAAATGATGCGGCGCAGCAGGAAGGATTCAGGGAACTC
 TCCCTGATGCGAGAGAGCAGGAGATTCGGATGGGTGAGTGGCTATGGGAGGTGCTATGGGCATAACAA
 CAGAGGTGCCATGCCCCCTGCTCCTGTGCCAGTGGTACCCAGCTCCTCCAGGACCTGCCACTATGATG
 CCGGATGGAACCTTTGGGATTGACCCACCAACAACTGAACGCTTTGGTCAGGCTGCTACAATGGAAGGAA
 TTGGGGCAATTGGTGGAACCTCCTCTGCATTCAACCGTGCAGCTCCTGGAGCTGAATTTGCCCAACAA
 ACGTCGCCGATAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG226591 representing NM_001145410
 Red=Cloning site Green=Tags(s)

MQSNKTFNLEKQNHTPRKHQHQQHHQHHQQQQPPPPPIPANGQQASSQNEGLTIDLKNFRKPGKETF
 TQRSRLFVGNLPPDITEEEMRKLFEKYGKAGEVFIHKDKGFGFIRLETRTLAEIAKVELDNMPLRGKQLR
 VRFACHSASLTVRNLPQYVSNELLEAFSVFGQVERAVIVDDRGRPSGKGIVFSGKPAARKALDRCE
 GSFLLTTFPRPVTVEPMDQLDDEEGLPEKLVIKNQQFHKEREQPPRFAQPGSFEYAYMRWKAL IEMEQ
 QQDQVDRNIKEAREKLEMEMEAARHEHQVLMRQDLMRRQEELRRMEELHNQEVQKRKQLELRQEEERRR
 REEEMRRQEEEMRRQEGFGKTFPDAREQEI RMGQMAMGGAMGINNRGAMPAPVPAGTPAPPGPATMM
 PDGTLGLTPPTTERFGQAATMEGIGAIGGTPPAFNRAAPGAEFAPNKRURY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_001145410.1, NP_001138882.1</p>
RefSeq Size:	<p>2894 bp</p>
RefSeq ORF:	<p>1149 bp</p>
Locus ID:	<p>4841</p>
UniProt ID:	<p>Q15233</p>
Cytogenetics:	<p>Xq13.1</p>
Protein Families:	<p>Druggable Genome, Transcription Factors</p>
Gene Summary:	<p>This gene encodes an RNA-binding protein which plays various roles in the nucleus, including transcriptional regulation and RNA splicing. A rearrangement between this gene and the transcription factor E3 gene has been observed in papillary renal cell carcinoma. Alternatively spliced transcript variants have been described. Pseudogenes exist on Chromosomes 2 and 16. [provided by RefSeq, Feb 2009]</p>