

Product datasheet for **MG225314**

Noto (NM_001007472) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Noto
Synonyms:	Flh; MmNot; Not; tc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG225314 representing NM_001007472
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCCAGCCCTGCTCCCTCAGGCACTCAGGTCCAGCCGGGAGCCTGCGCCCTGTCCGGGAGCTGTTT
CCCCAGTTGTCCCAGCCGACTAGCTCGGGGACGCCTGGAGTCATCCTTCTCTGTCGAGGCCATCCTGGC
GAGACCAAGACCCGAGAGCTGGCGCCACCTCTGCCGCTCTACCTGCACCAGTCTGAACCTCCTC
GGTCCGGTGTGCGAGTACGGGGTCTGCCCTGGGTGTGCTCCACAGGGTCTTGGCTGCCTGCCTACCTGA
GCGTGGCGCTACCCGCTGTGCTCCATGTCCTGCGTGCCCGGACTGAATGCTCACTACCACCAGCAGGG
CCTCAGGCTCACAGGATCAGAGCTACCTTACTGTCTAGGCCCTCTGAAATGGGCACCCACCGTGGACCTT
CGGGACCACGGGACCGAGAGACACAAAGAGGGTTCGCACAACGTTTAACTTGCAGCAGCTGCAAGAGT
TGGAGAAGGTGTTTCAAAGCAGCACAACTGGTGGGAAGGAGAGCCAGCTGGCTGCCAGGCTGCA
CCTGACGGAGAATCAGGTGAGGATCTGGTTCCAAAATCGCAGGGTGAAGTATCAGAAGCAGCAAAACTG
AAATTGCCTTCTCTGTGCATGGAGGAGCCCTCCAGCAGCTCAGATGGCAACATCCAGAGTGAAGATG
CTGAGTTGGGAATTGGCAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG225314 representing NM_001007472
 Red=Cloning site Green=Tags(s)

MSSPAPSGTQVQPGSLRCPGAVSPVVPRLARGRLESSFSVEAILARPKTRELAATSLPLSTCTSLNLL
 GAVSQYGVLPWVCSTGSWLPAYLSVGVYPLCSMSCVPGLNVTHHQQLRLTGSELPYCLGPLKWAPTVDL
 RDHGTERHTKRVRTTFNLQQLQELEKVFQKQHNLVGKERAQLAARLHLTENQVRIWFQNRVKYQKQKQL
 KLPSSSVMEEPSSSSDGNIQSEDAELGIGS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001007472

ORF Size: 720 bp

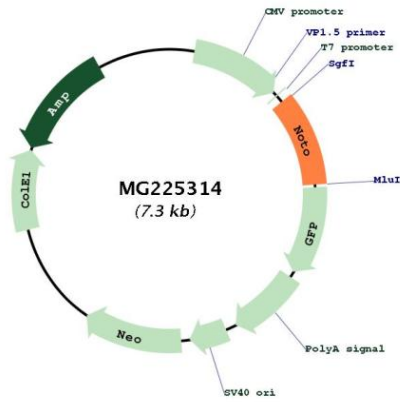
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001007472.2 , NP_001007473.1
RefSeq Size:	1602 bp
RefSeq ORF:	723 bp
Locus ID:	384452
UniProt ID:	Q5TIS6
Cytogenetics:	6 37.44 cM
Gene Summary:	Transcription factor that controls node morphogenesis (PubMed:15231714, PubMed:17884984, PubMed:18061569, PubMed:22357932). Acts downstream of both FOXA2 and Brachyury (T) during notochord development (PubMed:15231714). Is essential for cilia formation in the posterior notochord (PNC) and for left-right patterning; acts upstream of FOXJ1 and RFX3 in this process and is required for the expression of various components important for axonemal assembly and function (PubMed:17884984). Plays a role in regulating axial versus paraxial cell fate (PubMed:18061569). Activates the transcription of ciliary proteins C11orf97 homolog, FAM183B and SPACA9 in the embryonic ventral node (PubMed:27914912).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225314