

Product datasheet for **RG207297**

NUT (NUTM1) (NM_175741) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	NUT
Synonyms:	C15orf55; FAM22H; NUT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG207297 representing NM_175741
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTTCAGATGGAGCATCTGCATTGCCGGGACCGGATATGAGCATGAAACCTAGTGCCGCCCTGTCTC
 CATCCCTGCACTTCCCTTTCTCCACCACTTCTGACCCACCAGACCACCCAGGGAGCCACCTCC
 ACAGCCCATCATGCCTTCAGTATTCTCTCCAGACAACCTCTGATGCTCTCTGCTTTCCCAAGCTCACTG
 TTGGTGACAGGGGACGGGGGCCCTTGCCCTCAGTGGGGCTGGGGCTGGCAAGGTCATTGTCAAAGTCAAGA
 CAGAAGGGGGTCAGCTGAGCCCTCTCAAACCTCAGAACTTTATCCTTACTCAGACTGCCCTCAATTCGAC
 TGCCCGGGGCACTCCCTGTGGAGGCCTTGAGGGTCTGCACCTCCATTTGTGACAGCATCTAATGTGAAG
 ACCATTCTGCCCTTAAGGCTGTTGGTGTGAGCCAGGAGGGTCTCCAGGCCTTCCGCCTCAGCCTCCAC
 CACCAGTTGCTCACTGGTCCCATTTGTGCCCCTGAAAAAGCTTGGCCAGGGCCACATGGGACAACCGG
 GGAAGGAGGTCCTGTGGCCACTCTATCAAGCCTTCCCTAGGTGACCGCTCCAAAATTTCCAAGGACGTT
 TATGAGAACTTCCGTGAGTGCGAGCTTACAAAGCCTTGCCCGGAGGACCTATCCAGAGTCTTGACA
 CAGAAGCTCTTCTGTTTCTTATCCAGTGCTTCTGTTCCCTGGCCCGGCTGAAGCCCACTATGACCTT
 GGAGGAGGGACTGCCATTGGCTGTGACAGGAGTGGGAGCACACCAGCACTTTGACCGGATGATCTTTTAT
 GAGATGGCAGAAAGGTTTATGGAGTTTGGGCTGAGGAGATGCAGATTGAGAACACAGCTGATGAATG
 GGTCTCAGGGCCTGTCTCTGCAACCCCTTTGAACTTGATCCTCTAGGGCCCTTGGCCTCTGAGGTTTG
 CCAGCAGCCAGTGATATTCCGAAGAAGGCAGCCTCCAAGACAGGGCCCCCGCGCGCTCAGCGTAA
 GCGCAGAGACCTCTGCTCTGAGGCACCAAGGAGATCCACCAGAAGCTGTGAAGGAGTATGTTGACA
 TCATGGAATGGCTGGTGGGACTCACTTGGCCACTGGGAGTCAGATGGAAAACAAGAGGAAGAAGGGCA
 GCAGCAGGAGGAGGAAGGGATGTATCCAGATCCAGGTCTCCTGAGCTACATCAATGAGCTGTGTTCTCAG
 AAGGTCTTGTCTCAAGGTGGAGGCTGTCACTTACCCTCAATTTCTGGCAGATCTGCTGTCCCCAGAAA
 AACAGAGAGATCCCTTGGCCTTAATTGAGGAGCTAGAGCAAGGAGAAGGACTCACTCTTGCCAGCTGGT
 CCAGAAGCGACTCATGGCCTTGAAGAGGAGGAAGATGCAGAGGCGCCTCCAAGTTTCAAGTGGCGCTCAG
 TTGGACTCAAGTCCTTCTGGTTCTGTTGAGGATGAAGATGGGGATGGGCGGCTTCCGGCCCTCACCTGGGC
 TTCAGGGGGCTGGGGGCGCGCTTGCCTTGGAAAGGTTTCTTCTTCAAGAAAACGGGCAAGAGAAGTGCA
 TGGTGGGCAGGAGCAAGCCCTAGATAGCCCCAGAGGATGCACAGGGATGGGAACACTCTGCCATCCCCC
 AGCAGCTGGGACCTGCAGCCAGAACTTGACGCTCCACAGGGAACCTCGGGACCTTGGGTGTGGAGAGGA
 GAGGGTCTGGGAAGGTTATAAACAGGTATCTCTACATCAGGATGGCCATCTAGGAGGCGCTGGGCCTCC
 CTGGGCACTGCCTGGTGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

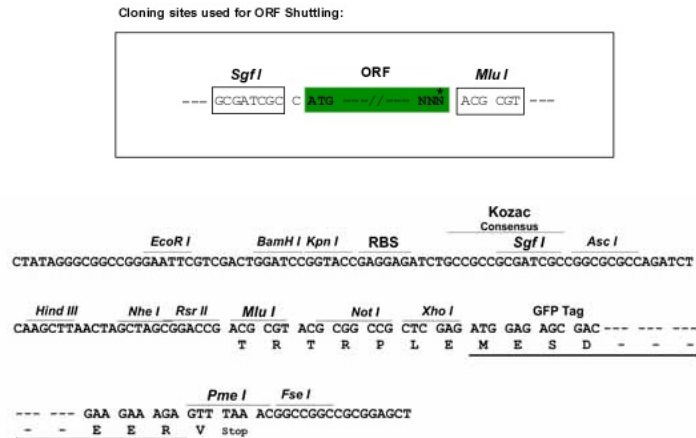
Protein Sequence: >RG207297 representing NM_175741
 Red=Cloning site Green=Tags(s)

MASDGASALPGDMSMKPSAALSPSPALPFLPPTSDPPDHPPREPPQPIMPVSFSPDNPLMLSAFPSSL
 LVTGDGPCLSGAGAGKVIKVKTEGGSAPSQTNFILTQTALNSTAPGTPCGGLEGPAPPFVTASNK
 TILPSKAVGVSQEGPPGLPPQPPPPVAQLVPIVPLEKAWPGPHGTTGEGGPVATLSKPSLGDRSKISKDV
 YENFRQWQRYKALARRHLSQSPDEALSCFLIPVLRSLARLKPTMTLEEGLPLAVQEWEHTSNFDRMIFY
 EMAERFMEFEAEEMQIQNTQLMNGSQGLSPATPLKLDPLGPLASEVCQQPVYIPKKAASKTRAPRRRQK
 AQRPPAPEAPKEIPPEAVKEYVDIMEWLVGTHLATGESDGKQEEEGQQQEEEGMYPDPGLLSYINELCSQ
 KVFVSKVEAVIHPQFLADLLSPEKQRDPLALIEELEQGEGLTALQLVQKRLMALEEEEDAAPPFSFGAQ
 LDSSPSGSEVEDGDGRLRSPGLQGAGGAACLKGVSSSGKRAREVHGGQEALDSPRGMHRDGNLTLPSP
 SSWDLQPELAAPQGTGPGPLGVERRSGKVINQVSLHQDGHLLGGAGPPWALPGG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175741

ORF Size: 1839 bp

OTI Disclaimer: 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.

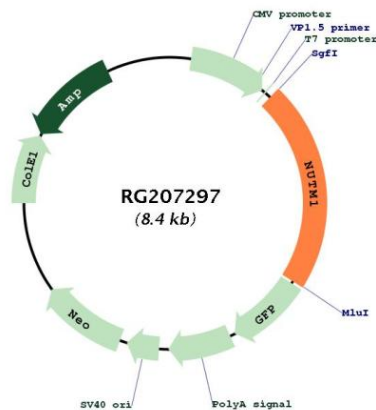
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<u>NM_175741.1</u> , <u>NP_786883.1</u>
RefSeq Size:	3795 bp
RefSeq ORF:	3399 bp
Locus ID:	256646
UniProt ID:	<u>Q86Y26</u>
Cytogenetics:	15q14
Gene Summary:	Plays a role in the regulation of proliferation. Regulates TERT expression by modulating SP1 binding to TERT promoter binding sites.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207297