

## Product datasheet for **RC207297**

### **NUT (NUTM1) (NM\_175741) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NUT (NUTM1) (NM_175741) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NUT
Synonyms:	C15orf55; FAM22H; NUT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC207297 representing NM\_175741  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTTCAGATGGAGCATCTGCATTGCCGGGACCGGATATGAGCATGAAACCTAGTGCCGCCCTGTCTC  
 CATCCCCTGCACTTCCCTTTCTCCACCAACTTCTGACCCACCAGACCACCCACCCAGGGAGCCACCTCC  
 ACAGCCCATCATGCCTTCAGTATTCTCTCCAGACAACCCTCTGATGCTCTCTGCTTTCCCCAGCTCACTG  
 TTGGTGACAGGGGACGGGGCCCTTGCCCTCAGTGGGGCTGGGGCTGGCAAGGTCATTGTCAAAGTCAAGA  
 CAGAAGGGGGGTGAGTGGCCCTCTCAAACCTCAGAACTTTATCCTTACTCAGACTGCCCTCAATTCGAC  
 TGCCCCGGGCACTCCCTGTGGAGGCCTTGAGGGTCTGCACCTCCATTTGTGACAGCATCTAATGTGAAG  
 ACCATTCTGCCCTAAGGCTGTTGGTGTGAGCCAGGAGGGTCTCCAGGCCTCCGCCTCAGCCTCCAC  
 CACCAGTTGCTCAACTGGTCCCCATTGTGCCCTGGAAAAAGCTTGGCCAGGGCCACATGGGACAACCGG  
 GGAAGGAGGTCTGTGGCCACTCTATCCAAGCCTTCCCTAGGTGACCGCTCCAAAATTTCCAAGGACGTT  
 TATGAGAACTTCCGTGAGTGGCAGCGTTACAAAGCCTTGGCCCGGAGGCACCTATCCAGAGTCTGACA  
 CAGAAGCTCTTCTGTTTTCTATCCCAGTGCTTCGTTCCCTGGCCCGGCTGAAGCCCACTATGACCCCT  
 GGAGGAGGACTGCCATTGGCTGTGAGGAGTGGGAGCACACCAGCAACTTTGACCGGATGATCTTTTAT  
 GAGATGGCAGAAAGGTTTCATGGAGTTTGGAGCTGAGGAGATGCAGATTGAGAACACACAGCTGATGAATG  
 GGTCTCAGGGCCTGTCTCCTGCAACCCCTTTGAACTTGATCCTTAGGGCCCTGGCCTCTGAGGTTTG  
 CCAGCAGCCAGTGTACATTCCGAAGAAGGCAGCCTCCAAGACACGGGCCCCCGCCGGCCTCAGCGTAAA  
 GCCCAGAGACCTCTGCTCCTGAGGCACCAAGGAGATCCCACCAGAAGCTGTGAAGGAGTATGTTGACA  
 TCATGGAATGGCTGGTGGGGACTCACTTGGCCACTGGGGAGTCAAGTGGAAAACAAGAGGAAGAAGGGA  
 GCAGCAGGAGGAGGAAGGATGTATCCAGATCCAGGTCTCCTGAGCTACATCAATGAGCTGTGTTCTCAG  
 AAGGTCTTTGCTCCAAGGTGGAGGCTGTATTACCCTCAATTTCTGGCAGATCTGCTGTCCCCAGAAA  
 AACAGAGAGATCCCTTGCCCTTAATTGAGGAGCTAGAGCAAGGAGAAGGACTCACTCTTGCCAGCTGGT  
 CCAGAAGCGACTCATGGCCTTGAAGAGGAGGAAGATGCAGAGGCGCCTCCAAGTTTCAGTGGCGCTCAG  
 TTGGACTCAAGTCTTCTGTTCTGTTGAGGATGAAGATGGGGATGGGCGGCTTCGGCCCTCACCTGGGC  
 TTCAGGGGCTGGGGCGCCGCTTGCCCTGGAAAGGTTTCTTCTCAGGAAAACGGGCAAGAGAAGTGCA  
 TGGTGGGCAGGAGCAAGCCCTAGATAGCCCCAGAGGGATGCACAGGGATGGGAACACTCTGCCATCCCC  
 AGCAGCTGGGACTGCAGCCAGAACTTGACGCTCCACAGGGAACCCGGGACCCTTGGGTGTGGAGAGGA  
 GAGGGTCTGGGAAGGTTATAAACAGGTATCTCTACATCAGGATGGCCATCTAGGAGGCGCTGGGCCTCC  
 CTGGGCACTGCCTGGTGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

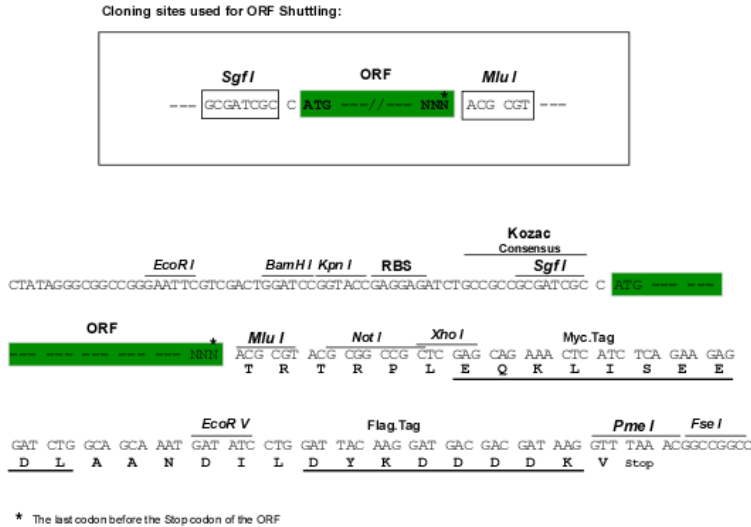
>RC207297 representing NM\_175741  
 Red=Cloning site Green=Tags(s)

MASDGASALPGPDMSMKPSAALSPSPALPFLPPTSDPPDHPPREPPPQPIMPVSPDNPLMLSAFPSSL  
 LVTGDGGPCLSGAGAGKVIKVKTEGGSAPSQTQNFILTQTALNSTAPGTPCGGLEGPAPPFVTASNVK  
 TILPSKAVGVSQEGPGLPPQPPPPVAQLVPIVPLEKAWPGPHGTTGEGGPVATLSKPSLGDRSKISKDV  
 YENFRQWQRYKALARRHLSQSPDTEALSCFLIPVLRSLARLKPTMTLEEGLPLAVQEWHTSNFDRMIFY  
 EMAERFMEFEAEEMQIQNTQLMNGSQGLSPATPLKLDPLGPLASEVCQQPVYIIPKKAASKTRAPRRRQRK  
 AQRPPAPEAPKEIPPEAVKEYVDIMEWLVGTHLATGESDGKQEEEGQQQEEEGMYPPDGLLSYINELCSQ  
 KVFVSKVEAVIHPQFLADLLSPEKQRDPLALIEELEQGEGLTLAQLVQKRLMALEEEEDAAPPSPFSGAQ  
 LDSSPSGSVEDEDGDGRLRPSGLQGAGGAACLKGVSSSGKRAREVHGGQEALDSDPRGMHRDNTLPSP  
 SSWDLQPELAAPQGTGPGPLGVERRGSGKVINQVSLHQDGLHGGAGPPWALPGG

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**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](mailto: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](#)

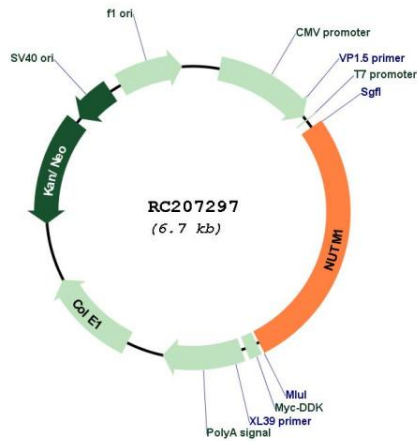
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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.

RefSeq Size:	3795 bp
RefSeq ORF:	3399 bp
Locus ID:	256646
UniProt ID:	<u><a href="#">Q86Y26</a></u>
Cytogenetics:	15q14
MW:	120.2 kDa
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 RC207297