

Product datasheet for **MG200677**

Nutf2 (BC003955) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nutf2 (BC003955) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Nutf2
Synonyms: Ntf3, PP15, Ntf2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200677 representing BC003955
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGAGACAAGCCAATTTGGGAGCAGATTGGATCCAGCTTTATTCAACATTACTACCAGTTATTTGATA
 ACGACAGAACCCAACTAGGCGCAATTTATATTGATGCATCATGCCTTACATGGGAAGGACAGCAGTTCCA
 GGGGAAAGCTGCCATTGTGGAGAAGCTATCTAGCCTTCCGTTCCAGAAAATTCAGCATAGCATCACGGCG
 CAGGACCACCAGCCTACACCAGATAGCTGCATCATCAGCATGGTTGTGGCCAGCTCAAGGCTGATGAAG
 ATCCCATCATGGGTTTCCACCAGATGTTTCTATTAAGAACATCAACGATGCTTGGGTTTGACCAATGA
 CATGTTCAGGCTTGCCCTGCACAACTTCGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200677 representing BC003955
 Red=Cloning site Green=Tags(s)

MGDKPIWEQIGSSFIIQHYYQLFDNDRTQLGAIYIDASCLTWEQQFQGKAAIVEKLSLSPFQKIQHSITA
 QDHQPTPDCSIIISMVVGQLKADEDPIMGFHQMFLKLNINDAWVCTNDMFRLALHNFG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

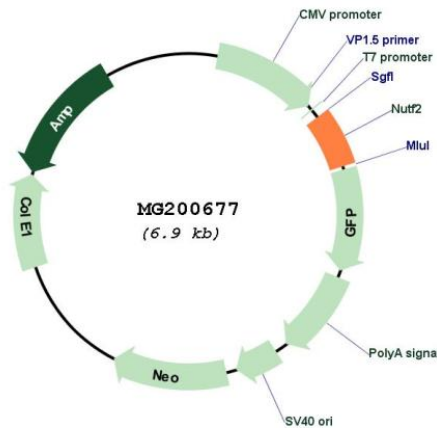


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Cloning Scheme:



Plasmid Map:



ACCN: BC003955

ORF Size: 383 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.
RefSeq:	BC003955 , AAH03955
RefSeq Size:	1978 bp
RefSeq ORF:	383 bp
Locus ID:	68051
Cytogenetics:	8 53.05 cM
Gene Summary:	Mediates the import of GDP-bound RAN from the cytoplasm into the nucleus which is essential for the function of RAN in cargo receptor-mediated nucleocytoplasmic transport. Thereby, plays indirectly a more general role in cargo receptor-mediated nucleocytoplasmic transport. Interacts with GDP-bound RAN in the cytosol, recruits it to the nuclear pore complex via its interaction with nucleoporins and promotes its nuclear import. [UniProtKB/Swiss-Prot Function]