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Product datasheet for RG210078

C20orf7 (NDUFAF5) (NM_001039375) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C20orf7 (NDUFAF5) (NM_001039375) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C20orf7
Synonyms:	bA526K24.2; C20orf7; dJ842G6.1; MC1DN16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210078 representing NM_001039375 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCTGCGGCCGGCAGGGCTCTGGCGCTTATGTCGGCGACCTTGGGCGGCGAGGGTCCCAGCGGAGAATC TTGGCCGTAGGGAAGTCACCTCTGGTGTCTCTCCCCGCGGTAGCACCTCGCCCAGAACCCTGAATATTTT CGACCGGGATTTGAAAAGGAAACAGAAGAACTGGGCAGCCCGGCAGCCCGAGCCGACCAAATTTGACTAC CTGAAGGAGGAGGTTGGAAGTCGGATCGCAGACCGTGTATATGACATACCCAGAAATTTCCCCCTTGCTT TGGATCTTGGTTGTGGAAGAGGTTACATTGCACAATATTTGAATAAGCTTCAGTTATTCCATTGCAGGAA ACTATTGGAAAGTTTTTCCAAGCTGACATTGCAGAAAATGCTTTGTTTGCATTGGGTGAATGACCTTCCT AGAGCACTTGAGCAGATTCATTATATTTTAAAACCAGATGGAGTGTTTATCGGTGCAATGTTTGGAGGCG ACACACTCTATGAACTTCGGTGTTCCTTACAGTTAGCGGAAACGGAAAGGGAAGGAGGATTTTCTCCACA CATTTCTCCTTTCACTGCTGTCAATGACCTGGGACATCTGCTTGGGAGAGCTGGCTTTAATACTCTGACT GTGGACACTGATGAAATTCAAGTTAACTATCCTGGAATGTTTGAATTGATGGAAGATTTACAAGGTATGG GTGAGAGTAACTGTGCTTGGAATAGAAAAGCCCTGCTGCATCGAGACACAATGCTGGCAGCTGCGGCAGT GTACAGAGAAATGTACAGAAATGAAGATGGTTCAGTACCTGCTACATACCAGATCTATTACATGATAGGA TGGAAATATCATGAGTCACAGGCAAGACCAGCTGAAAGAGGTTCCGCAACTGTGTCATTTGGAGAGCTAG GAAAAATAAACAACCTTATGCCACCGGGGAAAAAATCACAA ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

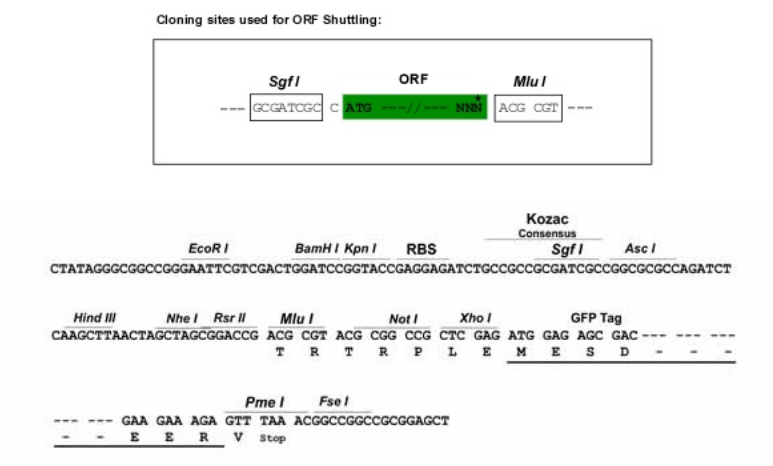
>RG210078 representing NM_001039375
Red=Cloning site Green=Tags(s)

MLRPAGLWRLCRRPWAARVPAENLGRREVTSGVSPRGSTSPRTLNIFDRDLKRKQKNWAARQPEPTKFDY
LKEEVGSRIADRVYDIPRNFPLALDLGCGRGYIAQYLNKLQLFHCRKLLESFSKLTLQKMLCLHWVNDLP
RALEQIHYILKPDGVFIGAMFGGDTLYELRCSLQLAETEREGGFSPHISPFTAVNDLGHLLGRAGFNTLT
VDTDEIQVNYPGMFELMEDLQGMGESNCAWNRKALLHRDTMLAAAAVYREMYRNEDGSVPATYQIYYMIG
WKYHESQARPAERGSATVSFGELGKINNLMPPGKKSQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001039375

ORF Size: 951 bp

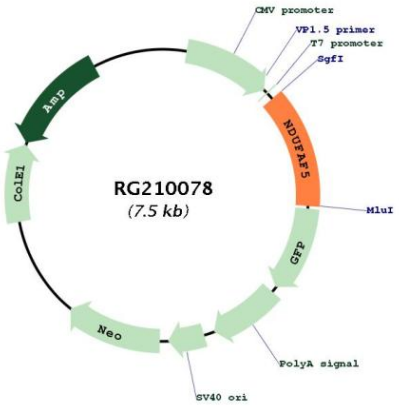
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	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_001039375.3
RefSeq Size:	1021 bp
RefSeq ORF:	954 bp
Locus ID:	79133
UniProt ID:	Q5TEU4
Cytogenetics:	20p12.1
Protein Families:	Druggable Genome
Gene Summary:	The NADH-ubiquinone oxidoreductase complex (complex I) of the mitochondrial respiratory chain catalyzes the transfer of electrons from NADH to ubiquinone, and consists of at least 43 subunits. The complex is located in the inner mitochondrial membrane. This gene encodes a mitochondrial protein that is associated with the matrix face of the mitochondrial inner membrane and is required for complex I assembly. A mutation in this gene results in mitochondrial complex I deficiency. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RG210078