

Product datasheet for **RG213257**

C9orf21 (AAED1) (NM_153698) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C9orf21 (AAED1) (NM_153698) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C9orf21
Synonyms:	AAED1; C9orf21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213257 representing NM_153698 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGCGGCCCGGTCACGCGGCAGGTTAGCGGCGCGCCGCCCTGGTCCCGGCCCGAGCGGCC
CCGACAGCGGGCAGCCCTGGCGCGCCGTGGCCGAGCTGCCGGTGCTGGACGCCCGGGCAGCGGGT
ACCGTTCGGCGCGCTGTTCCGGGAGCGCCGCGCCGTGGTGGTGTTCGTGCGGCATTTCTGTGTTACATC
TGCAAGGAATACGTAGAGGATCTGGCCAAATCCCCAGGAGTTTCTTACAAGAAGCAAATGTCACCCTTA
TAGTGATTGGACAGTCATCCTACCATCATATTGAGCCTTTTTGCAAGCTGACTGGATATTCTCATGAAAT
CTATGTCGATCCTGAGAGAGAAATTTATAAAAGATTGGGAATGAAAAGAGGTGAAGAAATTGCTTCCTCA
GGACAGAGCCCCACATAAAATCAAATCTACTCTCAGGAAGCCTTCAGAGCCTGTGGCGGCAGTGAAGT
GCCCTCTCTTTGATTTTCAAGGAGACCCAGCTCAGCAAGGTGGAACCTCATTTTAGGTCCAGGTAACAA
CATCCATTTTATACACGCGATAGGAATAGGTTGGATCACAACCTATCAACTCTGTTTTACAGCTTGTA
GGAGTTCAGCATGTGAACCTTACAAACAGACCTTCAGTTATCCATGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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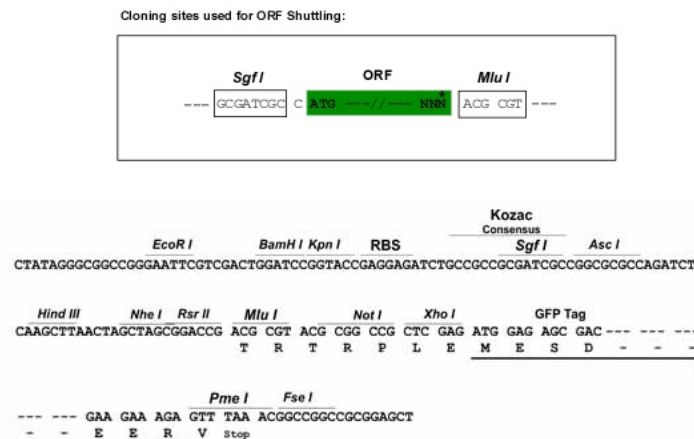
Protein Sequence: >RG213257 representing NM_153698
 Red=Cloning site Green=Tags(s)

MAAPAPVTRQVSGAAALVPAPSGPDSGQPLAAVAELPVL DARGQRPFGALFRERRAVVVFVRHFLCYI
 CKEYVEDLAKIPRSFLQEANVT LIVIGQSSYHHIEPFCKLTGYSHEIYVDPEREIYKRLGMRGEEIASS
 GQSPHIKSNLLSGSLQSLWRAVTGPLDFDQGDPAQGGTLILPGNNIHF IHRDRNRLDHKPINSVLQLV
 GVQHVNFNRPVSIHV

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153698

ORF Size: 678 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.

RefSeq: [NM_153698.2](#)

RefSeq Size: 1242 bp

RefSeq ORF: 681 bp

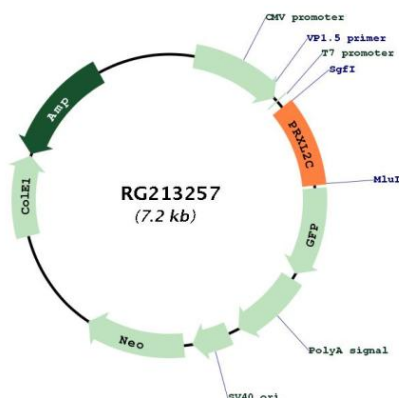
Locus ID: 195827

UniProt ID: [Q7RTV5](#)

Cytogenetics: 9q22.33

Gene Summary: May regulate positively ERK1/2 signaling and AKT1 activation leading to HIF1A up-regulation with an increased expression of glycolysis genes and enhanced glycolysis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG213257