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Product datasheet for RC213257

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:	Myc-DDK
Symbol:	C9orf21
Synonyms:	AAED1; C9orf21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC213257 representing NM_153698
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGCGCCGGCCCCGGTCACGCGGCAGGTTAGCGGCGCCGCCGCCCTGGTCCCGGCCCCGAGCGGCC
CCGACAGCGGGCAGCCCCTGGCGGCCGCCGTGGCCGAGCTGCCGGTGCTGGACGCCCGCGGGCAGCGGGT
ACCGTTCGGCGCGCTGTTCCGGGAGCGCCGCGCCGTGGTGGTGTTCGTGCGGCATTTCCTGTGTTACATC
TGCAAGGAATACGTAGAGGATCTGGCCAAAATCCCCAGGAGTTTCTTACAAGAAGCAAATGTCACCCTTA
TAGTGATTGGACAGTCATCCTACCATCATATTGAGCCTTTTTGCAAGCTGACTGGATATTCTCATGAAAT
CTATGTCGATCCTGAGAGAGAAATTTATAAAAGATTGGGAATGAAAAGAGGTGAAGAAATTGCTTCCTCA
GGACAGAGCCCCCACATAAAATCAAATCTACTCTCAGGAAGCCTTCAGAGCCTGTGGCGGGCAGTGACTG
GCCCTCTCTTTGATTTTCAAGGAGACCCAGCTCAGCAAGGTGGAACCCTCATTTTAGGTCCAGGTAACAA
CATCCATTTTATACACCGCGATAGGAATAGGTTGGATCACAAACCTATCAACTCTGTTTTACAGCTTGTA
GGAGTTCAGCATGTGAACTTTACAAACAGACCTTCAGTTATCCATGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC213257 representing NM_153698
Red=Cloning site Green=Tags(s)

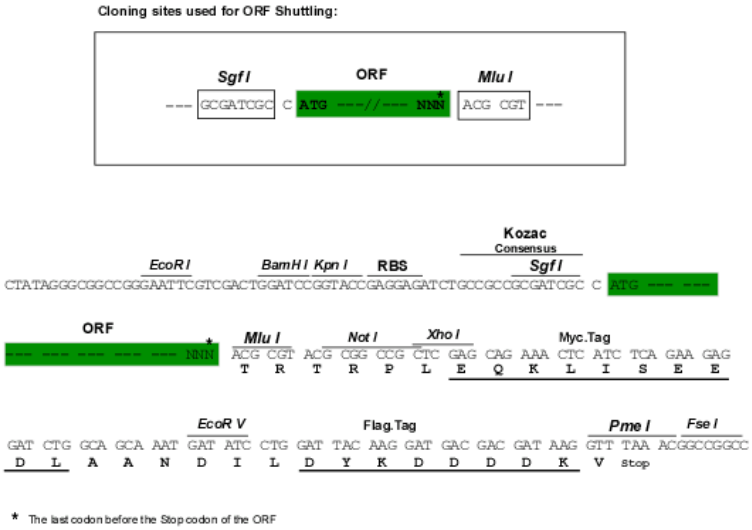
MAAPAPVTRQVSGAAALVPAPSGPDSGQPLAAAVAELPVLDARGQRVPFGALFRERRAVVVFVRHFLCYI
CKEYVEDLAKIPRSFLQEANVTLIVIGQSSYHHIEPFCKLTGYSHEIYVDPEREIYKRLGMKRGEEIASS
GQSPHIKSNLLSGSLQSLWRAVTGPLFDFQGDPAQQGGTLILGPGNNIHFIHRDRNRLDHKPINSVLQLV
GVQHVNFTNRPSVIHV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1297_g11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153698

ORF Size: 678 bp

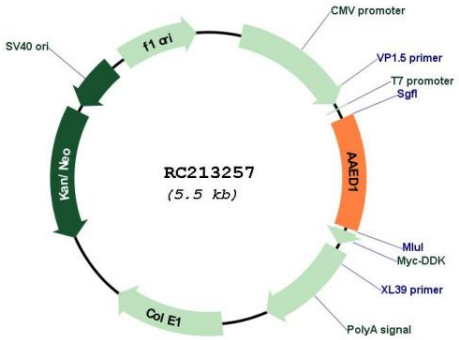
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

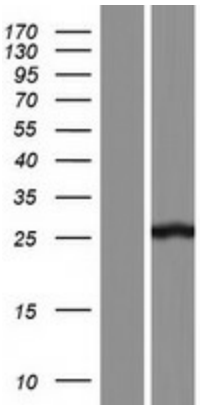
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_153698.2
RefSeq Size:	1242 bp
RefSeq ORF:	681 bp
Locus ID:	195827
UniProt ID:	Q7RTV5
Cytogenetics:	9q22.33
MW:	24.7 kDa
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]

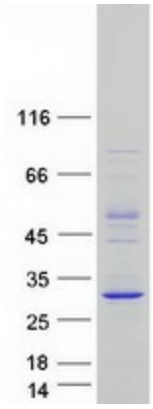
Product images:



Circular map for RC213257



Western blot validation of overexpression lysate (Cat# [LY406982]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213257 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PRXL2C protein (Cat# [TP313257]). The protein was produced from HEK293T cells transfected with PRXL2C cDNA clone (Cat# RC213257) using MegaTran 2.0 (Cat# [TT210002]).