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Product datasheet for RC212861

QRICH2 (NM_032134) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	QRICH2 (NM_032134) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	QRICH2
Synonyms:	SPGF35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC212861 ORF sequence, codon optimized.
Due to the complexity of NM_032134, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGGACGCCGCCGAAGAGCTGTCATTCGCACGAGTACTGCTGCAGAGGGTGGACGAGCTGGAGAAAC
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GCCGCCCGAGATGGACGACCGGGAACTTATTCCCTTCGTGGTCGACGAACAGCGGATGCTCCCCCCCAGC
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GGGGTGTGTCATTTCAGGTATGGGGCAGCAGGGGCTTGTGCCACCCGGTATCGACCAGCAGGGACTTACT
TTGCCCGTCGTCGATCAGCATGGTCTGGTACTGCCCTTCACAGATCAGCATGGGCTGGTGAGTCCTGGGT

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TGATGCCAATCAGCGCTGACCAACAGGGCTTCGTGCAGCCTAGTCTTGAGGCAACAGGGTTCATTCAGCC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RC212861 representing NM_032134
Red=Cloning site Green=Tags(s)

MKDAAEELSFARVLLQRVDELEKLFKDREQFLELVSRKLSLVPGAEEVTMVTWEELEQAITDGWRASQAG
SETLMGFSKHGGFTSLTSPEGTLSGDSTKQPSIEQALDSASGLGPDRTASGSGGTAHPSDGVSSREQSKV
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PASQSQVHLRPDRRGLEPTGMNQPGLVPASTYPHGVVPLSMGQLGVPPPEMDDRELIPFVVDEQRMLPPS
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SMSMAPHKAHTLAPGQIDPEATCPACSLDVSHQVSTLVRRYEQLQDMVNSLAVSRPSKKAKLQRQDEELL
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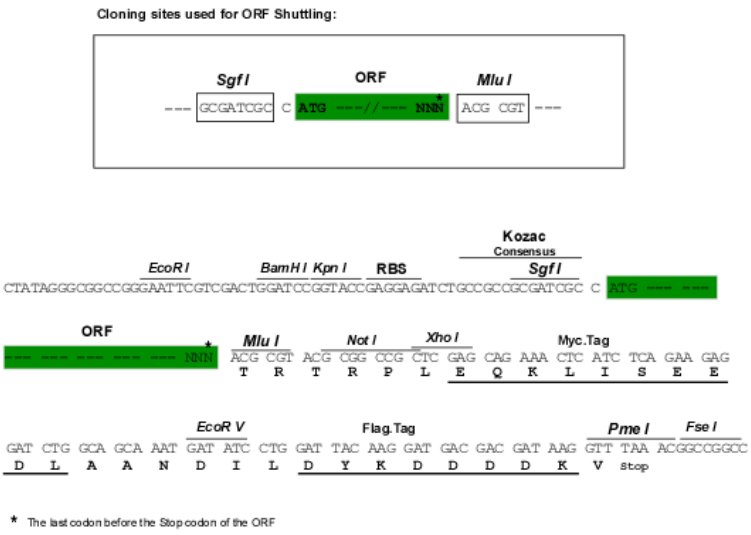
Restriction Sites: SgfI-MluI

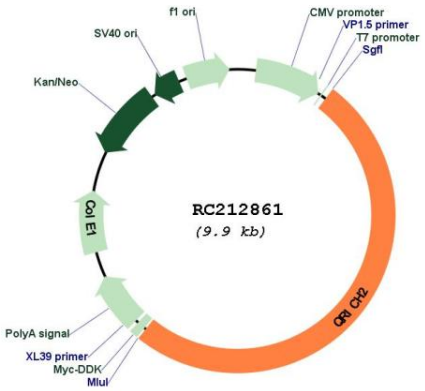
Cloning Scheme:



ACCN:	NM_032134
ORF Size:	4989 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_032134.1, NM_032134.2, NP_115510.1
RefSeq Size:	5411 bp
RefSeq ORF:	4992 bp
Locus ID:	84074
UniProt ID:	Q9H0J4
Cytogenetics:	17q25.1
MW:	180.8 kDa
Gene Summary:	Has an essential role in the formation of sperm flagella and flagellar structure maintainance. It acts as a suppressor of ubiquitination and degradation of proteins involved in flagellar development and motility.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC212861