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Product datasheet for SC124565

LYRM7 (NM_181705) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LYRM7 (NM_181705) Human Untagged Clone
Tag:	Tag Free
Symbol:	LYRM7
Synonyms:	C5orf31; MC3DN8; MZM1L
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_181705, the custom clone sequence may differ by one or more nucleotides

ATGGGACGGGCAGTCAAGGTTTTACAGCTCTTTAAAACACTGCACAGGACCAGACAACAAGTTTTTAAAA
ATGATGCCAGAGCATTAGAAGCAGCCAGAATAAAGATAAATGAAGAATTCAAAAATAATAAAAGTGAAAC
TTCTTCTAAGAAAATAGAAGAGCTAATGAAAATAGGTTCTGATGTTGAATTATTACTCAGAACATCTGTT
ATACAAGGTATTCACACAGACCACAATACACTGAAACTGGTCCCTAGGAAAGACCTTCTTGTAGAAAATG
TGCCATATTGTGATGCACCAACTCAGAAGCAATGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_181705 unedited
GTAATTGTATACGACTACTATAGGCGGCCGACGAATTCGCACCAGCCGCGGTGAGGAGAG
CCTGGGACGGGCAGTCAAGGTTTTACAGCTCTTTAAAACACTGCACAGGACCAGACAACA
AGTTTTTAAAAATGATGCCAGAGCATTAGAAGCAGCCAGAATAAAGATAAATGAAGAATT
CAAAAATAATAAAAGTGAAACTTCTTCTAAGAAAATAGAAGAGAACTGGTCCCTATGAAA
GACCTTCTTGTAGAAAATGTGCCATATTGTGATGCACCAACTCAGAAGCAATGAGTTTTC
TAGAATACAACAAGTCTTTGTACTTTTTAACTTTAAAATCTACAACTCTGGCAAAAGTCC
TGGAAATGCAGACATTTTCCCTGAACTGGCATATTGAAAATGAATGAATTACAGAATAGC
TTCATATTTAAATTTCATGTTAAAAGGTCATTACTGAGAACTAAAGAACATAATTAAGTA
TTTCTAAAGGAAATTAGATAAGAAAACATTTCATTTTCATTGAAAATCAAATTTCATAAA
GCAAAGTAAATGCTTAGGGAGATATATTCAATCTTTGACCTTGATGAGTATTTGATCTTA
CCATAGCTATTTGAGAATGTGGAGCTTTTACAAATTGGTGAGTTTTCCTGCCATGTGAAA
TGCAATTATTACATTTAAATTGTTAGATTAAAATGATATTTAGTCCTGAAAAATATTAAA
TTGGCCAAAANAATCAGTGTATGCCAGCTCTCTCAGAAAGGGCCTTTGTTCTCTAAGCAC
TGNGATTATCTCTGTAGCTATATATAATTGCACAGTCNCTTTCTAGAGATAGAGAGTATC
TCTGAGGCTCTATGAAGACATTCTCTATCAGCTTTCTGAAATAGATGAATANATATTATA
GTCACCTAGGGTCACTATGGNATAAAGAATCCTANCTAAGAGGAANTAGTGGNCCTGATC
AAACTATTATATGGCCTAGTAGAATAAGCTGACTTAAACAAGTAGACCTATCGGGATGG

Restriction Sites: NotI-NotI

ACCN: NM_181705

Insert Size: 2850 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_181705.1, NP_859056.1

RefSeq Size: 2104 bp

RefSeq ORF: 315 bp

Locus ID: 90624

UniProt ID: Q5U5X0

Cytogenetics: 5q23.3-q31.1

Gene Summary: Inner mitochondrial membrane complex III (CIII) is the main enzyme complex in the mitochondrial respiratory chain, and Rieske Fe-S protein (UQCRFS1) is the last catalytic subunit added to the complex. The protein encoded by this gene is a nuclear-encoded mitochondrial matrix protein that stabilizes UQCRFS1 and chaperones it to the CIII complex. Defects in this gene are a cause of mitochondrial complex III deficiency, nuclear type 8. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jun 2014]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.