

Product datasheet for RC200730

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Lysozyme (LYZ) (NM_000239) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Lysozyme (LYZ) (NM_000239) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: Lysozyme

Synonyms: LYZF1; LZM

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-Entry (PS100001)
Kanamycin (25 ug/mL)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >RC200730 ORF sequence

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CAGTATGTTCAAGGTTGTGGAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200730 protein sequence

Red=Cloning site Green=Tags(s)

MKALIVLGLVLLSVTVQGKVFERCELARTLKRLGMDGYRGISLANWMCLAKWESGYNTRATNYNAGDRST DYGIFQINSRYWCNDGKTPGAVNACHLSCSALLQDNIADAVACAKRVVRDPQGIRAWVAWRNRCQNRDVR

QYVQGCGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

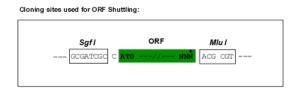
Chromatograms: https://cdn.origene.com/chromatograms/mk6053 f03.zip

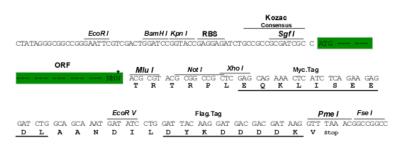




Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_000239

ORF Size: 444 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: <u>NM 000239.3</u>

RefSeq Size: 1516 bp RefSeq ORF: 447 bp



Locus ID: 4069

UniProt ID: P61626

Cytogenetics: 12q15

Domains: lys

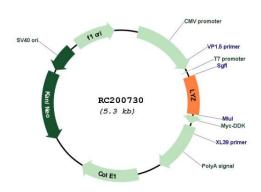
Protein Families: Druggable Genome

MW: 16.5 kDa

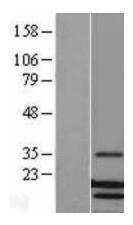
Gene Summary: This gene encodes human lysozyme, whose natural substrate is the bacterial cell wall

peptidoglycan (cleaving the beta[1-4]glycosidic linkages between N-acetylmuramic acid and N-acetylglucosamine). Lysozyme is one of the antimicrobial agents found in human milk, and is also present in spleen, lung, kidney, white blood cells, plasma, saliva, and tears. The protein has antibacterial activity against a number of bacterial species. Missense mutations in this gene have been identified in heritable renal amyloidosis. [provided by RefSeq, Oct 2014]

Product images:

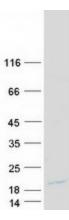


Circular map for RC200730



Western blot validation of overexpression lysate (Cat# [LY400091]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200730 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified LYZ protein (Cat# [TP300730]). The protein was produced from HEK293T cells transfected with LYZ cDNA clone (Cat# RC200730) using MegaTran 2.0 (Cat# [TT210002]).