

Product datasheet for RC208627

Aly (ALYREF) (NM_005782) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aly (ALYREF) (NM_005782) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aly
Synonyms:	ALY; ALY/REF; BEF; REF; THOC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208627 representing NM_005782 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCGACAAAATGGACATGTCTCTGGACGACATCATTAACTGAACCGGAGCCAGCGAGGCGGCCGGG
GCGGGGGCCGGGGCCGCGGCCGGCCGGCTCCCAGGGCGGCCGCGGCGGTGGGGCGCAGGCCGCCGCGCG
AGTGAATCGAGGCGGGGCCATCCGGAACCGGCCGATCGCCCGCGCGCGGCCGGCGGAGGCCGG
AGGAACCGACCGGCCCTACAGCAGGCCAAAACAACCTCCGACAAGTGGCAGCAGCATCTTTTCGACA
GTGGCTTCGGCGGTGGTCCGGCGTGGAGACAGGTGGAAACTGCTGGTGTCCAATCTGGATTTTGGAGT
CTCAGACGCCGATATTCAGGAACCTTTGCTGAATTTGGAACGCTGAAGAAGCGGCTGTGCACTATGAT
CGCTCTGGTCGCAGCTTAGGAACAGCAGACGTGCACTTTGAGCGGAAGGCAGATGCCCTGAAGGCCATGA
AGCAGTACAACGGCGTCCCTCTGGATGGCCGCCCATGAACATTCAGCTTGTACGTCACAGATTGACGC
ACAGCGGAGGCCCTGCACAGAGCGTAAACAGAGGTGGCATGACTAGAAACCGTGGCGCTGGAGTTTTGGT
GGTGGTGGAGGCACCCGGAGAGGCACCCGCGGAGGCGCCCGTGGAAAGGCAGAGGTGCCGCGAGGAATT
CAAAGCAGCAGCTTTCGGCAGAGGAGCTGGATGCCAGCTGGACGCCTATAATGCGAGAATGGACACCAG
T

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208627 representing NM_005782
Red=Cloning site Green=Tags(s)

MADKMDMSLDDI IKLNRSQRGGRGGGRGRGRAGSQQGRRGGGAQAAARVNRGGGPIRNRPAIARGAAGGGG
 RNRPPAPYSRPKQLPDKWQHDLFDSGFGGGAGVETGGKLLVSNLDFGVSDADIQELFAEFGTLKKA AVHYD
 RSGRSLGTADVHFERKADALKAMKQYNGVPLDGRPMNIQLVTSQIDAQRPAQSVNRGGMTRNRGAGGFG
 GGGTRRGTRGGARGRGRGAGRNSKQQLSAEELDAQLDAYNARMDTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1511_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005782

ORF Size: 771 bp

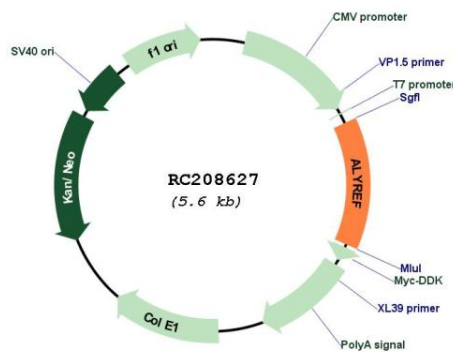
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

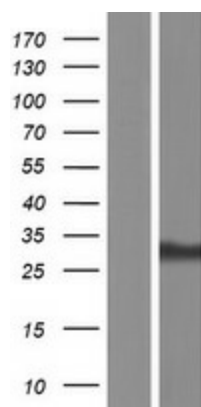
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none"> 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_005782.2</u> , <u>NP_005773.2</u>
RefSeq Size:	1113 bp
RefSeq ORF:	795 bp
Locus ID:	10189
UniProt ID:	<u>Q86V81</u>
Cytogenetics:	17q25.3
Protein Pathways:	Spliceosome
MW:	26.9 kDa
Gene Summary:	The protein encoded by this gene is a heat stable, nuclear protein and functions as a molecular chaperone. It is thought to regulate dimerization, DNA binding, and transcriptional activity of basic region-leucine zipper (bZIP) proteins. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC208627



Western blot validation of overexpression lysate (Cat# [LY417070]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208627 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).