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Product datasheet for RC208646

14-3-3 theta (YWHAQ) (NM_006826) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	14-3-3 theta (YWHAQ) (NM_006826) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	14-3-3 theta
Synonyms:	1C5; 14-3-3; HS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208646 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAAGACTGAGCTGATCCAGAAGGCCAAGCTGGCCGAGCAGGCCGAGCGCTACGACGACATGGCCA
CCTGCATGAAGGCAGTGACCGAGCAGGGCGCCGAGCTGTCCAACGAGGAGCGCAACCTGCTCTCCGTGGC
CTACAAGAACGTGGTCGGGGGCCGCAGGTCCGCCTGGAGGGTCATCTCTAGCATCGAGCAGAAGACCGAC
ACCTCCGACAAGAAGTTGCAGCTGATTAAGGACTATCGGGAGAAAGTGGAGTCCGAGCTGAGATCCATCT
GCACCACGGTGCTGGAATTGTTGGATAAATATTTAATAGCCAATGCAACTAATCCAGAGAGTAAGGTCTT
CTATCTGAAAATGAAGGGTGATTACTTCCGGTACCTTGCTGAAGTTGCGTGTGGTGATGATCGAAAACAA
ACGATAGATAATTCCCAAGGAGCTTACCAAGAGGCATTTGATATAAGCAAGAAAGAGATGCAACCCACAC
ACCCAATCCGCCTGGGGCTTGCTCTTAACTTTTCTGTATTTTACTATGAGATTCTTAATAACCCAGAGCT
TGCCTGCACGCTGGCTAAAACGGCTTTTGATGAGGCCATTGCTGAACTTGATACACTGAATGAAGACTCA
TACAAAGACAGCACCCTCATCATGCAGTTGCTTAGAGACAACCTAACACTTTGGACATCAGACAGTGCAG
GAGAAGAATGTGATGCGGCAGAAGGGGCTGAAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC208646 protein sequence
Red=Cloning site Green=Tags(s)

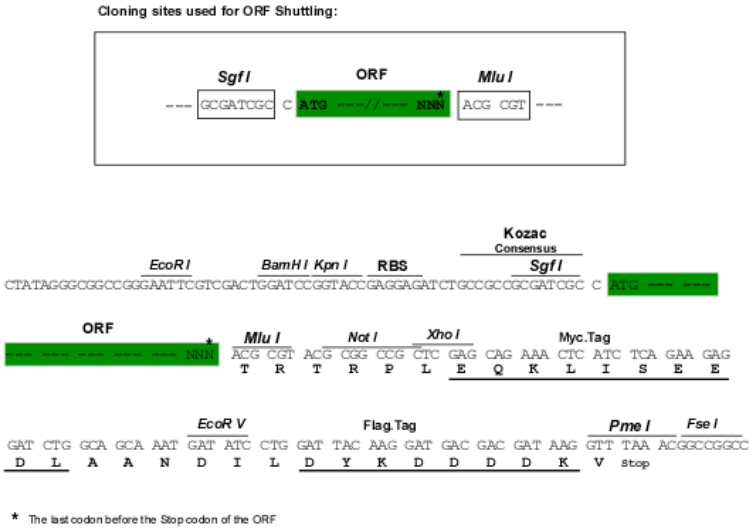
MEKTELIQKAKLAEQAERYDDMATCMKAVTEQGAELSNEERNLLSVAYKNVVGGRRSAWRVISSIEQKTD
TSDKKLQLIKDYREKVESELRSICTTVLELLDKYLIANATNPESKVFYLKMKGDYFRYLAEVACGDDRKQ
TIDNSQGAYQEAFDISKKEMQPTHPIRLGLALNFSVFYYEILNNPELACTLAKTAFDEAIAELDTLNEDS
YKDSTLIMQLLRDNLTLWTSDSAGEECDAAEGAEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6366_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006826

ORF Size: 735 bp

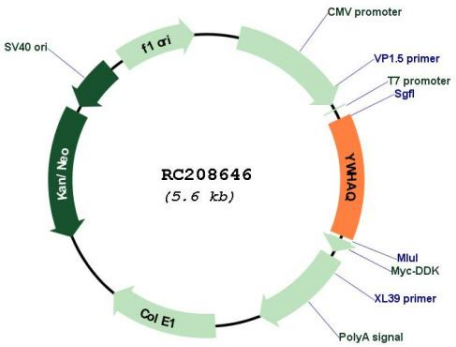
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

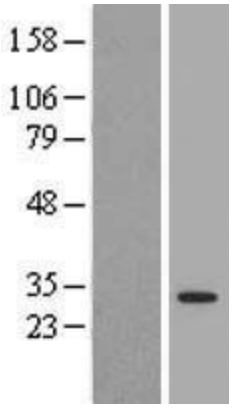
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_006826.4
RefSeq Size:	2272 bp
RefSeq ORF:	738 bp
Locus ID:	10971
UniProt ID:	P27348
Cytogenetics:	2p25.1
Domains:	14-3-3
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Neurotrophin signaling pathway, Oocyte meiosis, Pathogenic Escherichia coli infection
MW:	27.8 kDa
Gene Summary:	This gene product belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 99% identical to the mouse and rat orthologs. This gene is upregulated in patients with amyotrophic lateral sclerosis. It contains in its 5' UTR a 6 bp tandem repeat sequence which is polymorphic, however, there is no correlation between the repeat number and the disease. [provided by RefSeq, Jul 2008]

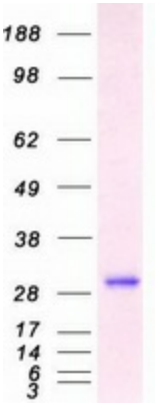
Product images:



Circular map for RC208646



Western blot validation of overexpression lysate (Cat# [LY416397]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208646 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified YWHAQ protein (Cat# [TP308646]). The protein was produced from HEK293T cells transfected with YWHAQ cDNA clone (Cat# RC208646) using MegaTran 2.0 (Cat# [TT210002]).