

## Product datasheet for RC224553

### ALKBH6 (NM\_032878) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ALKBH6 (NM_032878) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ALKBH6
Synonyms:	ABH6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224553 representing NM_032878 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGGGAGGGGGATGGGGATGTTGAATTTGGAAATTGGAGGGGACGCTGGTGGACGGATTGGGTGCA  
AGGAGTTGGTGTGATGGAGGAGCAGGACGCCAGAGTCCCAGCCCTGGAACCGTTCAGAGTGGAGCAGGC  
ACCACCTGTAATCTACTATGTCCCTGACTTCATCTCAAAGAAGAGGAGGAGTATTTGCTTCGACAGGTT  
TTAATGCCCAAAGCCAAAGTGGACCCAGCTCTCTGGGAGAAAGTTACAGAAGTGGGTGGCTTCCCT  
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CAGCCTCTTTGGAGGCCTCCAGCTAACCATGTCTCGTGAACCAAGTATCTGCCTGGGGAGGCATCATG  
CCCCACGAGGACGGACCACTGTACTACCGACTGTGACGACCATCAGCCTGGGCTCCACACCGTGTGG  
ACTTCTACGAGCCGCGCGGCCAGAGGACGATGACCTACAGAACAGCCTCGGCCTCCGCCCGGCCAC  
CACCTCGCTACTGCTGGAACCGCGCAGCCTGCTGGTGTCCGCGGCCCGCCTACACGCGTCTTCTCCAC  
GGCATCGCCGCCCGCGTAGACGCGCTGGACGCCGCTCCTCGCCGCCAATGCGGCAGCCTGCCCGT  
CGGCGCGCCGGGAGCCTGCCTGGTGCAGCGCACCCGGGTCTCGTGACCATCCGCCGCTGCCCGCGT  
GCTGCGCGCCGGCTCCTGCTGGCAAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC224553 representing NM\_032878  
Red=Cloning site Green=Tags(s)

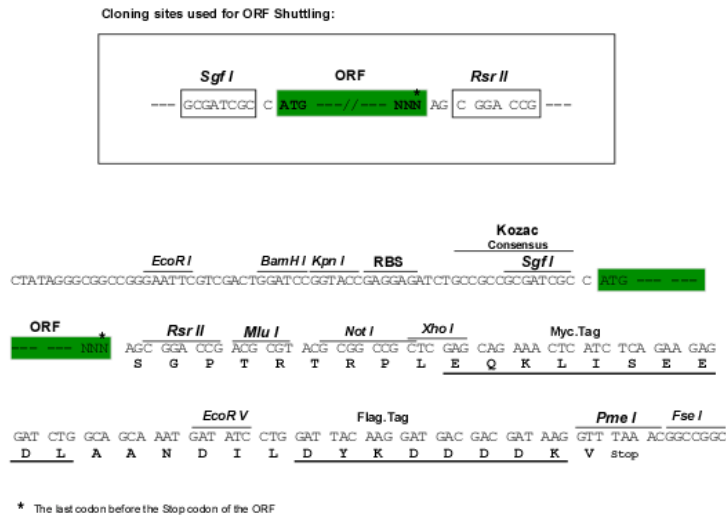
MAGRGMGMLNLEIGGDAGGRIGCKELVLMEEQDARVPALEPFRVEQAPPVIYYVPDFISKEEEEEYLLRQV  
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 PHEDGPLYYPTVSTISLGSHTVLDFYEPRRPEDDDPTEQPRPPRPTTSLLEPRSLLVLRGPAYTRLLH  
 GIAAARVDALDAASSPNAACPSARPGACLVRGTRVSLTIRRVPRVLRAGLLLGK

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8045\\_b03.zip](https://cdn.origene.com/chromatograms/mk8045_b03.zip)

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_032878

**ORF Size:** 798 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\\_032878.3](#), [NP\\_116267.3](#)

**RefSeq Size:** 980 bp

**RefSeq ORF:** 801 bp

**Locus ID:** 84964

**UniProt ID:** [Q3KRA9](#)

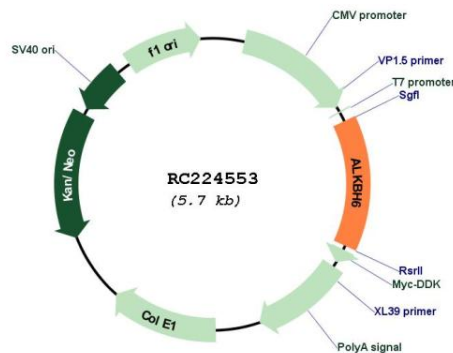
**Cytogenetics:** 19q13.12

**Domains:** 2OG-Fell\_Oxy

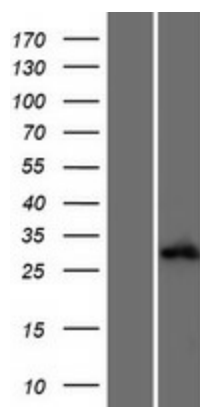
**MW:** 29.1 kDa

**Gene Summary:** Probable dioxygenase that requires molecular oxygen, alpha-ketoglutarate and iron. [UniProtKB/Swiss-Prot Function]

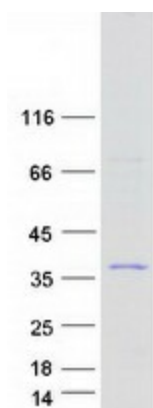
**Product images:**



Circular map for RC224553



Western blot validation of overexpression lysate (Cat# [LY409909]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224553 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ALKBH6 protein (Cat# [TP324553]). The protein was produced from HEK293T cells transfected with ALKBH6 cDNA clone (Cat# RC224553) using MegaTran 2.0 (Cat# [TT210002]).