

Product datasheet for MR218574

H2-Ke6 (NM_013543) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H2-Ke6 (NM_013543) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	H2-Ke6
Synonyms:	D17H6S112E; H-2Ke6; Hsd17b8; Ke-6; Ke6; Ring2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218574 representing NM_013543 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGTCTCAGCTCCGGCTCCGCTCTGCGCTGGCCCTGGTCACAGGTGCGGGTAGCGGCATCGGCCGTG
CGATCAGCGTGCCTAGCGGCAGAGGGCGCCCGTGGCCGCTGCGACCTGGACGGGGCCGGCACA
GGACACGGTCCGGCTGCTGGGAAGCCCGGGGAGCGAGGACGGGGCGCCGCGGCAAGCACGCTGCCTT
CAAGCGGATGTGTCTCAGGGCCCCGAGCCAGACGCTGCTGGAGGAAGTGCAGGCTGCTTTTCTCGCC
CGCCATCTGTCGTGTGTCTGTGCGGGCATCACACGCGATGAGTTTCTGCTCCACATGTCAGAAGAAGA
CTGGGACAGAGTCATAGCTGTCAACCTCAAGGGCACCTTCTAGTCACTCAGGCTGCAGCCAGGCTTTA
GTGTCCAGTGGCGGTCGTGGCTCCATCATCAACATTAGTAGCATCATTGGAAAGGTGGGGAATATCGGAC
AAACGAATTATGCGTCGTCCAAAGCAGGAGTGATTGGGCTCACCCAGACTGCGGGCCGGGAGCTTGGACG
ACATGGAATCCGATGTAACCTCGTCCAGGGTTTCAATTGCAACGCCCATGACCCAGAAAATGCCAGAG
AAAGTGAAGGACAAGGTAACGCAATGATTCCGTTGGGACACATGGGGGACCCTGAGGATGTGGCAGATG
TGGTTGCATTCTGGCATCTGAAGACAGTGGATACATCACAGGGGCTCCGTGGAAGTCACTGGAGGCT
TTTCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR218574 representing NM_013543
 Red=Cloning site Green=Tags(s)

MASQLRLRSALALVTGAGSGIGRAISVRLAAEGAAVAACDLGAAAQDTRLLGSPGSEDGAPRGKHAAF
 QADVSQGPAAARRLLEEVQACFSRPPSVVVCAGITRDFLLHMSEEDWDRVIAVNLKGTFLVTQAAAQAL
 VSSGGRGSIINISSIIGKVGNIQTNYASSKAGVIGLTQTAARELGRHGIRCNVLPGF IATPMTQKMP
 KVKDKVTAMIPLGHMGPEDVADVVAFLASEDSGYITGASVEVSGGLFM

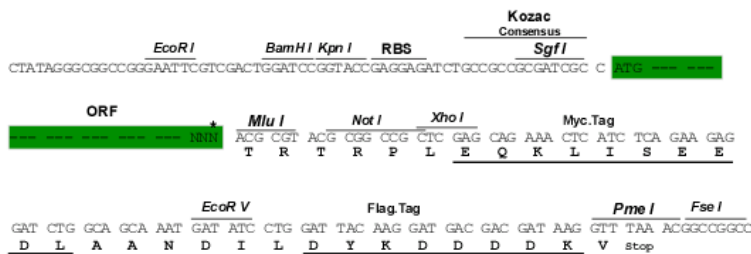
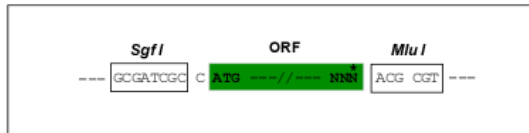
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3226_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_013543

ORF Size: 777 bp

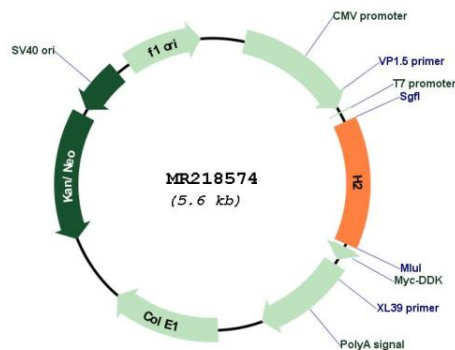
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:**
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_013543.2](#), [NP_038571.2](#)
- RefSeq Size:** 981 bp
- RefSeq ORF:** 780 bp
- Locus ID:** 14979
- UniProt ID:** [P50171](#)
- Cytogenetics:** 17 17.98 cM
- MW:** 26.6 kDa
- Gene Summary:** NAD-dependent 17-beta-hydroxysteroid dehydrogenase with highest activity towards estradiol. Has very low activity towards testosterone (PubMed:9712896). The heterotetramer with CBR4 has NADH-dependent 3-ketoacyl-acyl carrier protein reductase activity, and thereby plays a role in mitochondrial fatty acid biosynthesis. Within the heterotetramer, HSD17B8 binds NADH; CBR4 binds NADPD.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218574