**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for MG218574

## 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:** | TurboGFP |
| **Symbol:** | H2-Ke6 |
| **Synonyms:** | D17H6S112E; H-2Ke6; Hsd17b8; Ke-6; Ke6; Ring2 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**ORF Nucleotide Sequence:**

>MG218574 representing NM_013543
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTCTCAGCTCCGGCTCCGCTCTGCGCTGGCCCTGGTCACAGGTGCGGGTAGCGGCATCGGCCGTG
CGATCAGCGTGCGCCTAGCGGCAGAGGGCGCCGCCGTGGCCGCCTGCGACCTGGACGGGGCCGCGGCACA
GGACACGGTGCGGCTGCTGGGAAGCCCGGGGAGCGAGGACGGGGCGCCGCGCGGCAAGCACGCTGCCTTC
CAAGCGGATGTGTCTCAGGGCCCCGCAGCCAGACGCCTGCTGGAGGAAGTGCAGGCCTGCTTTTCTCGCC
CGCCATCTGTCGTTGTGTCCTGTGCGGGCATCACACGCGATGAGTTTCTGCTCCACATGTCAGAAGAAGA
CTGGGACAGAGTCATAGCTGTCAACCTCAAGGGCACCTTCCTAGTCACTCAGGCTGCAGCCCAGGCTTTA
GTGTCCAGTGGCGGTCGTGGCTCCATCATCAACATTAGTAGCATCATTGGAAAGGTGGGGAATATCGGAC
AAACGAATTATGCGTCGTCCAAAGCAGGAGTGATTGGGCTCACCCAGACTGCGGCCCGGGAGCTTGGACG
ACATGGAATCCGATGTAACTCGGTCCTCCCAGGGTTCATTGCAACGCCCATGACCCAGAAAATGCCAGAG
AAAGTGAAGGACAAGGTAACTGCAATGATTCCGTTGGGACACATGGGGGACCCTGAGGATGTGGCAGATG
TGGTTGCATTCTTGGCATCTGAAGACAGTGGATACATCACAGGGGCCTCCGTGGAAGTCAGTGGAGGTCT
TTTCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:**

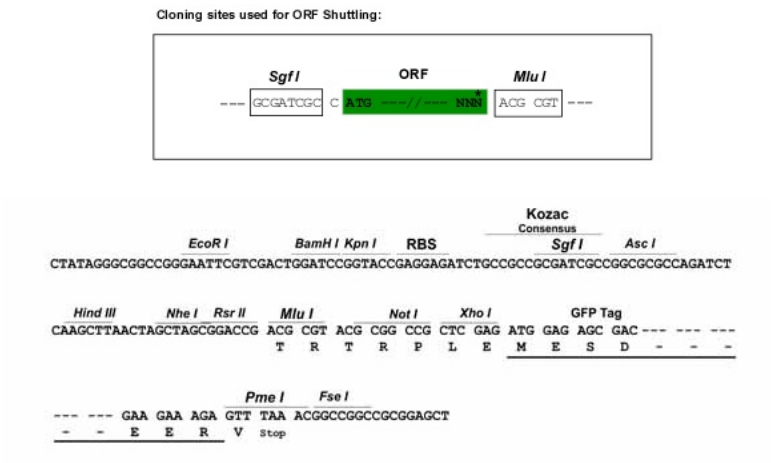
>MG218574 representing NM_013543
Red=Cloning site Green=Tags(s)

MASQLRLRSALALVTGAGSGIGRAISVRLAAEGAAVAACDLDGAAAQDTVRLLGSPGSEDGAPRGKHAAF
QADVSQGPAARRLLEEVQACFSRPPSVVVSCAGITRDEFLLHMSEEDWDRVIAVNLKGTFLVTQAAAQAL
VSSGGRGSIINISSIIGKVGNIGQTNYASSKAGVIGLTQTAARELGRHGIRCNSVLPGFIATPMTQKMPE
KVKDKVTAMIPLGHMGDPEDVADVVAFLASEDSGYITGASVEVSGGLFM

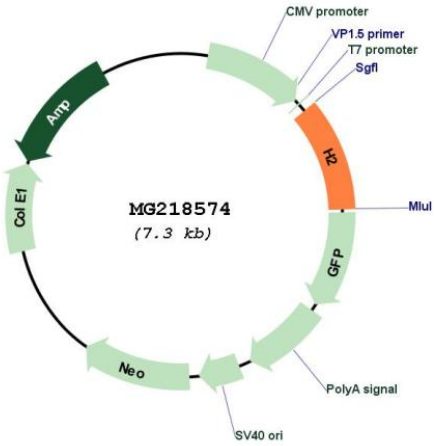
TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**Plasmid Map:**




**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.

**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

**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]