

Product datasheet for MR222637

Hras (NM_008284) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hras (NM_008284) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hras
Synonyms: c-H-ras; c-Ha-ras; c-rasHa; H-ras; Ha-ras; Harvey-ras; Hras-1; Hras1; Kras2; ras
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR222637 representing NM_008284
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACAGAATACAAGCTTGTGGTGGTGGGCGCTGGAGGCGTGGGAAAGAGTGCCCTGACCATCCAGCTGA
 TCCAGAACCACCTTGTGGACGAGTATGATCCCACTATAGAGGACTCTACCGAAACAGGTGGTCATTGA
 TGGGGAGACATGTCTACTGGACATCTTAGACACAGCAGGTCAAGAAGAGTATAGTGCCATCGGGACCAG
 TACATGCCACAGGGAGGGCTTCTCTGTGATTTGCCATCAACAACACCAAGTCTTCGAGGACATCC
 ATCAGTACAGGGAGCAGATCAAGCGGGTAAAGATTGAGATGATGTCCAATGGTCTGGTGGGCAACAA
 GTGTGACCTGGCTGCTCGCACTGTTGAGTCTCGGCAGGCCAGGACCTTGCTCGCAGCTATGGCATCCCC
 TACATTGAAACATCAGCCAAGACCCGGCAGGGCGTGGAGGATGCCTTCTATACACTAGTCCGTGAGATTC
 GGCAGCATAAATTGCGGAAACTGAACCCACCCGATGAGAGTGGTCTGGCTGCATGAGCTGCAAATGTGT
 GCTGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222637 representing NM_008284
 Red=Cloning site Green=Tags(s)

MTEYKLVVVGAGGVGKSALTIQLIQNHFVDEYDPTIEDSYRKQVVIDGETCLLDILDITAGQEEYSAMRDQ
 YMRTEGEGFLCVFAINNTKSFEDIHQYREQIKRVKDSDDVPMVLVGNKCDLAARTVESRQAQDLARSYGIP
 YIETSAKTRQGVEDAFYTLVREIRQHKLRKLNPPDESGPGCMSCCVLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

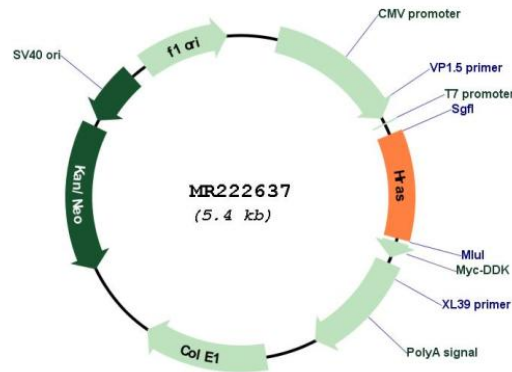


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Cloning Scheme:



Plasmid Map:



ACCN: NM_008284

ORF Size: 567 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_008284.2](#), [NP_032310.2](#)

RefSeq Size: 2043 bp

RefSeq ORF: 570 bp

Locus ID: 15461

UniProt ID: [Q61411](#)

Cytogenetics: 7 86.48 cM

MW: 21.7 kDa

Gene Summary: Ras proteins bind GDP/GTP and possess intrinsic GTPase activity.[UniProtKB/Swiss-Prot Function]