

Product datasheet for **MG201779**

Kras (NM_021284) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kras (NM_021284) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Kras
Synonyms: A1929937; c-K-ras; c-Ki-ras; K-Ras; K-ras; Ki-ras; Kras-2; Kras2; p21B; ras
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201779 representing NM_021284
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTGAGTATAAACTTGTGGTGGTTGGAGCTGGTGGCGTAGGCAAGAGCGCCTTGACGATACAGCTAA
 TTCAGAATCACTTTGTGGATGAGTACGACCCTACGATAGAGGACTCTACAGGAAACAAGTAGTAATTGA
 TGGAGAAACCTGTCTCTGGATATTCTCGACACAGCAGGCAAGAGGAGTACAGTGAATGAGGGACCAG
 TACATGAGAACTGGGAGGGCTTTCTTTGTGATTTGCCATAAAATAACTAAATCATTTGAAGATTC
 ACCATTATAGAGAACAAATTAAGAGTAAAGGACTCTGAAGATGTGCCTATGGTCTGGTAGGGAATAA
 GTGTGATTTGCCTTCTAGAACAGTAGACACGAAACAGGCTCAGGAGTTAGCAAGGAGTTACGGGATCCG
 TTCATTGAGACCTCAGCAAAGACAAGACAGGGTGTGACGATGCCTTCTATACATTAGTCCGAGAAATTC
 GAAACATAAAGAAAAGATGAGCAAAGATGGGAAGAAGAAGAAGAAGTCAAGGACAAGGTGTACAGT
 TATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201779 representing NM_021284
 Red=Cloning site Green=Tags(s)

MTEYKLVVVGAGGVGKSALTIQLIQNHFVDEYDPTIEDSYRKQVVIDGETCLLDILDITAGQEEYSAMRDQ
 YMRTEGEGFLCVFAINNTKSFEDIHYYREIQKRVKDSQVPMVLVGNKCDLPSRTVDTKQAQELARSYGIP
 FIETSAKTRQGVDDAFYTLVREIRKHKEKMSKDGKSKKSKSRTRCTVM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_021284.2
RefSeq Size:	4663 bp
RefSeq ORF:	567 bp
Locus ID:	16653
UniProt ID:	P32883
Cytogenetics:	6 77.37 cM
Gene Summary:	<p>Ras proteins bind GDP/GTP and possess intrinsic GTPase activity (By similarity). Plays an important role in the regulation of cell proliferation (PubMed:6474169, PubMed:1352876). Plays a role in promoting oncogenic events by inducing transcriptional silencing of tumor suppressor genes (TSGs) in colorectal cancer (CRC) cells in a ZNF304-dependent manner (By similarity).[UniProtKB/Swiss-Prot Function]</p>