

Product datasheet for **MG225666**

Nek10 (NM_001195229) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nek10 (NM_001195229) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nek10
Synonyms:	Gm282
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225666 representing NM_001195229 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGATCAAGATACAAAGGCGAAGAGCACAGAGAAAACCGCTGATAAGCAACAAGGGACCACCACCA
GGGACTATTCAGATCTTAAAAGACTTCGGTGCCTGTTGAACGTTCAAGCAACAGCAGCTTCCAGC
CATTAACTTTGACAGTGCCAAAATAACATGACAAAGTCTGAGCCAACCATCAGGACAGGGGACATAGA
GCTCGTGGTCAATGGCATGAGTCCACAGAAGCAGTTGAACTTGAAAATTTAGTATAAATATAAGAATG
AAAGGAATTTAGCAACATCCACAGCATCAGTTATTTCAAGAGATCTTACAGCTCTGGTGAGAAACAG
ACTTATATGCAGAGAGTGGGTTAATCGTGCTCCATCCATTTCTGAGAGTGTAAATTTGTCTGAGG
CTGCTGATGCGGGATCCATGTTATCAGGAAATACTCCATAAATTGGGTGGTATTGAAGACCTTGCTCAGT
ACATGGAGATCGTGGCAACGAGTACCTGGGCTACGCTGAGGAGCAGCACTGTGTGGACAAGCTGGTCAA
TATGACGTATATTTTTCAAAAACCTGCTGCTGTGAAAGACCAAAGAGAATGGGTTACTGCAAGTGGAGCC
CACAAGACATTAGTGAGTTTGTCTGGTCCCGAGACACCACTGTCCTCTTGGGTGCTGCTGGCACTGG
CCAGCTTAGCAGAGAGTTCAGAGTGTAGGAGAAGATCAGTGAACCAAGTGTAGAAAATCTGTTGAT
GATTCAGCAGCAATATGATTTACTCTCCAAAAGACTCACTGCCGAGCTCCTGCGCCTGCTTTGTGCTGAG
CCCCAGATCAAGGAGCAGGTGAACTCTATGAAGGGATCCCCATCCTGCTCAGTCTGCTTCACTTCTGATC
ACTTGAAGCTGCTGTGGAGTGTGATCTGGATTCTGGTCCAGGTGTGTGAGGACCCGAGACTAGTGTGGA
AATCCGAATCTGGGTGGCATCAAGCAGCTCCTTCATATTTTACAAGGAGACAGAAAATTTGTTTCTGAC
CGTTCTTCCATCGGAAGCCTGTCCAGTGCAAAATGCCGAGGACGCATCCAGCAGCTTCAATTTGTCAGAAG
ATTTAAGCCCTGGGAAATCGAGGAAAATACTGTCTCTCCAAGCAGCCTGCTGTGCTGCCCTCACCGA
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ATTTTACAAATAAACAATCGAATGCAGCACAACTAATCTACTACAGTGTATGCTTTCCAGAACCTGA
GGTTTCTCTTTCAGTATGAAAAGGAACAGGCCACTTTTAAAAGACTTTTCCCACCGACCTGTTTGAGAC
CTTCATTGACATAGGACATTACGTTCTGATATTGGTGTATAAGGACTTGGTATCACAGTTGAATTTA



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CTATTGGAAGATGAGCTGAAGCAAATTGCTGAGAATATTGAAAGCATCAATCAGAAGAAAGCGCCCTTGA
 AGTACATAGGTGACTATGCTGTGTTGGACCACCTTGAAGTGGAGCTTTTGGCTGTGTTATAAGGTTAG
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 CTGGAGAGGGCTGCCACATCCCCCTGCGGGAAGGAGGAGGACAGGGTCTGTGAGGAGGTGCTGCAGAAGA
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 AACTGTAGCAGCTCCAGTTCAAGCCCCCTAAAGGAGTCTACATTCAGCATTTTAAAGCGAAGTTTCAGTG
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 CAGCTACATAAAGTTATCTACATCAGCAGCTCCCTCCAGCTGACCATGATCTGAAGAGAAGGGTTA
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 GTTGTCTCAGGGGTCTCCAGAACCCTCGAGCTGAACTTCTTACTCTCAGATTATCATTCTCGCCAT
 TCACGAGCTGCAAACTGCTCCCAAGTGACCCACAGGTTACCCAGCAGCTTTGAAAGTGAAGAGG
 GAGTACATATGAGCAGATGCAGACTGTGATTGAAGAAGTCTAGAGGAAAGTGGCTATTACAACCTTAC
 AACTAAGAGGTGCTACTCTTTCCATGGGTGACCAAGAGCTACACAGCCAAAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225666 representing NM_001195229
 Red=Cloning site Green=Tags(s)

MPDQDTKAKSTEKTADKQQGTTTRDYSCLKRLRCLLNQSSKQQLPAINFDSAQNMTKSEPTIRTGGHR
 ARGQWHESTEAVELENFSINYKNERNFSKHPQHQLFQEIFTALVRNRLICREWVNRAPSIHFLRVLICLR
 LLMRDPCYQEIHLKLGIEDLAQYMEIVANEYLYGAEQHCVDKLVNMTYIFQKLAAVKDQREWVTASGA
 HKTLVSLLGARDTTVLLGALLALASLAESSECREKISELNVVENLLMILHEYDLLSKRLTAEALLRLCAE
 PQIKEQVKLYEGIPILLSLLHSDHLKLLWSVIWILVQVCEDPETSVEIRIWGGIKQLLHILQGDRNFVSD
 RSSIGSLSSANAAGRIQQLHLSEDLSPGEIEENTVSLQAACCAALTELALNDTNAHQVVQENGVTIAKL
 ILPNKQSNAAQTNLLQCYAFRTLRFVSMERNRPLFKRPFPTDLFETFIDIGHYVRDYGAYKDLVSQLNL
 LLEDELKQIAENIESINQKAPLKYIGDYAVLDHLGSGAFGCYKVRKRSGQNLLAMKEVNLHNPAGFKD
 KKDRDSSVKNIVSELTIKEQLYHPNVVRYKTFLENDRLYIVMELIEGAPLGEHFNSLKEKHHHFSEER
 LWKIFIQLCLALRYLHKEKRIVHRDLTPNNIMLGDKDKVTVDFGLAKQKQESSKLSMVGITILYSCPEV
 LKSEPYGEKADVWAAGCILYQMATLSPFFCSTNMLSLATKIVEAVYEPVPEGIYSEKVTDTIRCLTPDA
 EARPDIVEVSSMISDVMMKYLDRLSTSQLALERKLERERRRTRQRYFMEANRNAVTCHELALLSQTETFEK
 ASLSSSSGAASLKSELSESAELPGECHIPCCKEEDRVCEEVLSDFNQLSEVEKDLVSELDDELVDSD
 NCSSSSSPLKESTFSILKRSFASGRERHSQARDFIAGLGSRRPASAGIAVSQRKVRQICDPIQQILI
 QLHKVIYITQLPPALHDLKRRVIERFKKSLFSQQSNPCNLKSEIKKLSQGSPEPIELNFLTSDYHSLRH
 SRAANNWSPSDPTGSPSSFEVEEGVTYEQMOTVIEEVLEESGYNFVTKRCHSFPWTKSYTAKR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<u>NM_001195229.1, NP_001182158.1</u>
RefSeq Size:	3348 bp
RefSeq ORF:	3348 bp
Locus ID:	674895
UniProt ID:	<u>Q3UGM2</u>
Cytogenetics:	14 A1
Gene Summary:	Plays a role in the cellular response to UV irradiation. Mediates G2/M cell cycle arrest, MEK autoactivation and ERK1/2-signaling pathway activation in response to UV irradiation. [UniProtKB/Swiss-Prot Function]