

Product datasheet for **RG205126**

KLF12 (NM_007249) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KLF12 (NM_007249) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KLF12
Synonyms: AP-2rep; AP2REP; HSPC122
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG205126 representing NM_007249
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATATCCATATGAAGAGAAAAACAATAAAGAATATCAACACCTTTGAGAACAGAATGTTAATGCTTG
 ATGGGATGCCGGCAGTCAGAGTCAAACAGAGCTTTTGAATCTGAACAAGGGTCTCAAACGTCCACAA
 CTATCCCGATATGGAAGCCGTTCCCTGTTGCTAAATAATGTGAAAGGGGAGCCCCGGAGGACTCGTTA
 TCTGTAGATCACTTCAAACACAACTGAGCCAGTGGACTTGCAATAAACAAGCCAGGACGTCCCCTA
 CTGCCGTTTCATCTCCCGAGTTCCATGACAGCATCTGCCTCCTCACCTTCTTCAACTCAACCTTTC
 ATCGTCTTCTAGTCGTCTAGCCTCATCCCAACTGTTATCACATCAGTATCTTCAGCGTCATCTTCGTCA
 ACAGTATTAACCTCCAGGGCCCTTGTGGCCTCTGCATCTGGTGTGGAGGCCAGCAGTTTTTGCACATTA
 TCCATCCCGTACCGCCTTCAAGTCCCATGAATTTACAGTCTAACAACTGAGTCATGTTCCACCGCATCCC
 CGTGGTGGTACAGTCGGTGCCTGTTGTCTACACAGCTGAAGGTACCTGGAAATGTGAACAACACTATT
 GTCGTGCCGCTTTTGGAGGATGGGAGAGGCCATGGCAAAGCACAAATGGACCCCGAGGCCATCTCCCA
 GACAAAGTAAAAGTGACAGTGATGATGACCTGCCAAATGTGACCTTAGATAGCGTTAATGAACTGG
 ATCTACGGCCCTTTCCATAGCCAGAGCAGTACAAGAGGTACATCCGTCCCAGTATCAAGGTCCGGGA
 AATCGAATGAATAATCAAAGTTTCCTTGTTCAATTTACCATTTAGTATTGAGAGCACAAAGCCGAGA
 GACGGTCTGAATCCCAGACTCCAGAAAACGGCGTATCCACAGATGTGATTTTGGGGATGCAACAAAGT
 GTACACAAAAAGTTCTCACCTGAAGGCTCACCGGAGGACACATACAGGAGAGAAACCTTACAAGTGTACC
 TGGGAAGGCTGCACCTGGAAGTTCGCTCGTTTCAGATGAACTGACGAGGCATTACCGCAAACATACGGGAG
 TGAAGCCATTCAAGTGCAGGACTGTGATCGCAGCTTTTCCCGGTGAGATCATTTGGCCCTGCACCGCCG
 GAGGCATATGTTGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205126 representing NM_007249
 Red=Cloning site Green=Tags(s)

MNIHMKRRTIKNINTFENRMLMLDGMPAVRVKTELLESEQGSPNVHNPDM EAVPLLLNNVKGPEPDSL
 SVDHFQTQTEPVDLSINKARTSPTAVSSSPVSM T ASASSPSSTSTSSSSSRLASSPTVITSVSSASSSS
 TVLTPGPLVASASGVGGQQFLHI IHPVPPSSPMNLQSNKLSHVHRIPVVVQSVPVVYTA VRSPGNVNNTI
 VVPLLEDGRGHGKAQMDPRGLSPRQSKSDSDDDDL PNVTLDSVNETGSTALSIARAVQEVHPSPVSRVRG
 NRMNNQKFPCSI SPFSIESTRRQRRESESPDSRKRRIHRCDFEGCNKVYTKSSHLKAHRRRHTGKPKYKCT
 WEGCTWKFARSDDELTRHYRKHTGVKPFKACDRSF SRSDHLALHRRRHMLV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007249

ORF Size: 1206 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_007249.4](#), [NP_009180.3](#)

RefSeq Size: 10923 bp

RefSeq ORF: 1209 bp

Locus ID: 11278

UniProt ID: [Q9Y4X4](#)

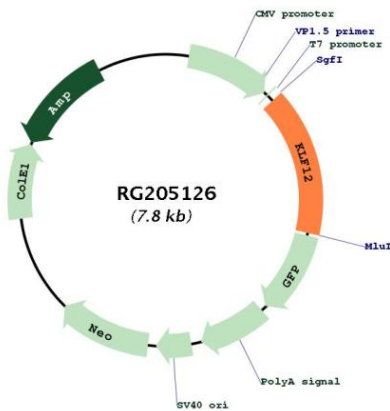
Cytogenetics: 13q22.1

Domains: zf-C2H2

Protein Families: Transcription Factors

Gene Summary: Activator protein-2 alpha (AP-2 alpha) is a developmentally-regulated transcription factor and important regulator of gene expression during vertebrate development and carcinogenesis. The protein encoded by this gene is a member of the Kruppel-like zinc finger protein family and can repress expression of the AP-2 alpha gene by binding to a specific site in the AP-2 alpha gene promoter. Repression by the encoded protein requires binding with a corepressor, CtBP1. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205126