

Product datasheet for **RG204384**

ANKRA2 (NM_023039) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKRA2 (NM_023039) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ANKRA2
Synonyms:	ANKRA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204384 representing NM_023039 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATACATCAACAAATCTGGATATTGGAGCCCAGCTTATCGTGAAGAGTGTCCAGCACTTATAGCC
TAACTGGCATGCCAGACATTAATAAGAACATCCACTGGACCCAAATTCAGAAGAAGGGTCAGCTCAGGG
TGTTGCCATGGGAATGAAATTCATATTGCCTAACCGATTTGATATGAATGTGTCTCGATTTGTGAAG
TCCTTAAATGAAGAAGATAGTAAAAATATCAAGATCAGGTTAACTCTGACCTGGAGGTGGCATCTGTCC
TATTTAAAGCTGAATGCAATATCCATACATCTCCTTCTCCGGAATTCAGTAAGGCATGTCTACACCCC
CTCTACAACAAAGCATTCTCACCCATAAACAGTCAACCACTTAACCAACAAACACAGAGGAAATGAG
GTCTCTACCACACCTCTGTTAGCAAATCTTTGTCTGTTCAACAGTTGGCTGCTCAGGGAGAGATGCTCT
ATCTGGCTACTCGTATCGAACAAAGAAAATGTTATCAATCACACGGATGAAGAAGGATTTACTCCTCTGAT
GTGGGCTGCAGCACCGGCAAAATAGCTGTGGTAGAGTTCTACTTCAGAATGGTGTGATCCCCAACTT
TTAGGAAAAGGTGAGAAAGTGCAGTGTCTGTTGGCCTGTAGTAAAGGCTACACAGATATTGTCAAATGC
TGCTTGATTGTGGAGTTGATGTAATGAATATGATTGGAATGGAGGAACACCTCTGCTTTATGCTGTACA
TGAAAATCATGTGAAATGTGAAAGATGCTCTTAGAAAAGTGGGGCTGATCCAACAATTGAACTGACTCT
GGATATAATTCTATGGATCTAGCTGTAGCCCTAGGCTATAGAAGTGTTCACAGGTTATTGAGTCACATT
TGTTGAAGCTGCTTCAAAATATCAAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204384 representing NM_023039
Red=Cloning site Green=Tags(s)

MDTSTNLDIGAQLIVEECPSTYSLTGMPDIKIEHPLDPNSEEGSAQGVAMGMKFI LPNRFD MNVCSRFVK
 SLNEEDSKNIQDQVNSDLEVASVLFKAECNIHTSPSPGIQVRHVYTPSTTKHFSP IKQSTLTNKH R GNE
 VSTTPLLANSLSVHQLAAQGEMLYLATRIEQENVINHTDEEGFTPLM WAAAHGQIAVVEFLLQNGADPQL
 LGKGRESALSLACSKGYTDIVKMLLLDCGV DVNEYDWNNGTPLL YAVHGNHVKCVKMLLES GADPTIETDS
 GYN SMDLAVALGYRSVQQVIESHLLKLLQNIKE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_023039

ORF Size: 939 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_023039.5](#)

RefSeq Size: 2048 bp

RefSeq ORF: 942 bp

Locus ID: 57763

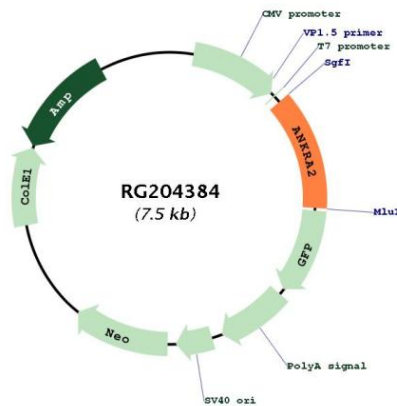
UniProt ID: [Q9H9E1](#)

Cytogenetics: 5q13.2

Domains: ANK

Gene Summary: May regulate the interaction between the 3M complex and the histone deacetylases HDAC4 and HDAC5 (PubMed:25752541). May also regulate LRP2/megalin (By similarity).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204384