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Product datasheet for SC323512

A RAF (ARAF) (NM_001654) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	A RAF (ARAF) (NM_001654) Human Untagged Clone
Tag:	Tag Free
Symbol:	A RAF
Synonyms:	A-RAF; ARAF1; PKS2; RAFA1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC323512 sequence for NM_001654 edited (data generated by NextGen Sequencing)

ATGGAGCCACCACGGGGCCCCCCTGCCAATGGGGCCGAGCCATCCCGGGCAGTGGGCACC
GTCAAAGTATACCTGCCCAACAAGCAACGCACGGTGGTGACTGTCCGGGATGGCATGAGT
GTCTACGACTCTCTAGACAAGGCCCTGAAGGTGCGGGGTCTAAATCAGGACTGCTGTGTG
GTCTACCGACTCATCAAGGGACGAAAGACGGTCACTGCCTGGGACACAGCCATTGCTCCC
CTGGATGGCGAGGAGCTCATTGTCGAGGTCCTTGAAGATGTCCCGCTGACCATGCACAAT
TTTGTACGGAAGACCTTCTTCAGCCTGGCGTTCTGTGACTTCTGCCTTAAGTTTCTGTTC
CATGGCTTCCGTTGCCAAACCTGTGGCTACAAGTTCCACCAGCATTGTTCCTCCAAGGTC
CCCACAGTCTGTGTTGACATGAGTACCAACCGCCAACAGTTCTACCACAGTGTCCAGGAT
TTGTCCGGAGGCTCCAGACAGCATGAGGCTCCCTCGAACCGCCCCCTGAATGAGTTGCTA
ACCCCCCAGGGTCCCAGCCCCCGCACCCAGCACTGTGACCCGGAGCACTTCCCCTTCCCT
GCCCCAGCCAATGCCCCCCTACAGCGCATCCGCTCCACGTCCACTCCCAACGTCCATATG
GTCAGCACCACGGCCCCCATGGACTCCAACCTCATCCAGCTCACTGGCCAGAGTTTCAGC
ACTGATGCTGCCGGTAGTAGAGGAGGTAGTGATGGAACCCCCCGGGGGAGCCCCAGCCCA
GCCAGCGTGTCCTCGGGGAGGAAGTCCCCACATTCCAAGTCACCAGCAGAGCAGCGCGAG
CGGAAGTCCTTGGCCGATGACAAGAAGAAAGTGAAGAACCTGGGGTACCGGGACTCAGGC
TATTACTGGGAGGTACCACCCAGTGAGGTGCAGCTGCTGAAGAGGATCGGGACGGGCTCG
TTTGGCACCGTGTTTCGAGGGCGGTGGCATGGCGATGTGGCCGTGATGGTGCTCAAGGTG
TCCCAGCCCACAGCTGAGCAGGCCCAGGCTTTCAAGAATGAGATGCAGGTGCTCAGGAAG
ACGCGACATGTCAACATCTTGCTGTTTATGGGCTTCATGACCCGGCCGGGATTTGCCATC
ATCACACAGTGGTGTGAGGGCTCCAGCCTCTACCATCACCTGCATGTGGCCGACACACGC
TTCGACATGGTCCAGCTCATCGACGTGGCCCGGCAGACTGCCCAGGGCATGGACTACCTC
CATGCCAAGAACATCATCCACCGAGATCTCAAGTCTAACAACATCTTCCTACATGAGGGG
CTCACGGTGAAGATCGGTGACTTTGGCTTGGCCACAGTGAAGACTCGATGGAGCGGGGCC
CAGCCCTTGGAGCAGCCCTCAGGATCTGTGCTGTGGATGGCAGCTGAGGTGATCCGTATG
CAGGACCCGAACCCCTACAGCTTCCAGTCAGACGTCTATGCCTACGGGGTTGTGCTCTAC
GAGCTTATGACTGGCTCACTGCCTTACAGCCACATTGGCTGCCGTGACCAGATTATCTTT
ATGGTGGGCCGTGGCTATCTGTCCCCGGACCTCAGCAAAATCTCCAGCAACTGCCCCAAG
GCCATGCGGCGCCTGCTGTCTGACTGCCTCAAGTTCCAGCGGGAGGAGCGGCCCCTCTTC
CCCCAGATCCTGGCCACAATTGAGCTGCTGCAACGGTCACTCCCCAAGATTGAGCGGAGT
GCCTCGGAACCCTCCTTGCACCGCACCCAGGCCGATGAGTTGCCTGCCTGCCTACTCAGC
GCAGCCCGCCTTGTGCCTTAG

Clone variation with respect to NM_001654.3
1007 a=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_001654 unedited
ACCGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA
CCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCCAAGATGGAGACG
GCGGCGGCTGTAGCGGCGTGACAGGAGCCCCATGGCACCTGCCCAGCCCCACCTCAGCCCATCTTGACAA
AATCTAAGGCTCCATGGAGCCACCACGGGGCCCCCCTGCCAATGGGGCCGAGCCATCCCGGGCAGTGGGC
ACCGTCAAAGTATACCTGCCCAACAAGCAACGCACGGTGGTGACTGTCCCGGGATGGCATGAGTGTCTAC
GACTCTCTAGACAAGGCCCTGAAGGTGCGGGGGTCTAAATCAGGACTGCTGTGGTGGTCTACCGACTCA
TCAAGGGACGAAAGACGGTCACTGGCCTGGGACCACAGCAATTGGCTCCCCCTGAATGGCAAGGGAGCTC
ATGGTCAAGGTCCTTGAGAATGTCCGGCTAACCTTGCACAATTTTTGTCCGGGAGAACCTTCTTAGCCCT
GGCTTCCGTGGACTTTGGCCTAAAGTTCCGGTTCCTGGCTTTCCGTTGCCAACTGGGGTCCAAATTCCCC
CACACTTTGTCCCTCAAGTCCCACAGTCTGTGTGTACATGAGATCACACGCCACACATTCTACCCACAGT
GCACAATATTGCCGAGAGTCACACACATGAGCGTCCTCTGAACCCCCTGATGAGATGTGTACACCCAGGT
GTCACGTCCGACAGACCTGTGAACGGGACATTCCTTCTGGCAGCAATGGCCCTAGGGATACGTTCAGTCA
TTCCAAGTATTGTAGCACGGCAATGATCACATCACGTCTTGCCAGATTACTAGTCCGATAGGAGCGTGTG
ACAGGATCGCAACGG

Kinase Domain Sequence:	>SC323512 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI refernce protein database, you can confirm the presence of the kinase-deficient mutation AKCRGTGCMGCTGCTGAGAGGWCGGGACGGGCTCGTTTGGCACCGTGTTTCGAGGGCGGTGGCATGGCGA TGTGGCCGTGATGGTGCTCAAGGTGTCCCAGCCCACAGCTGAGCAGGCCCAGGCTTTCAAGAATGAGATG CAGGTGCTCAGGAAGACGCGACATGTCAACATCTTGCTGTTTATGGGCTTCATGACCCGGCCGGGATTTG CCATCATCACACAGTGGTGTGAGGGCTCCAGCCTCTACCATCACC
Restriction Sites:	Please inquire
ACCN:	NM_001654
Insert Size:	2380 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell. 2008 May p536-548.
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_001654.1, NP_001645.1
RefSeq Size:	2466 bp
RefSeq ORF:	1821 bp
Locus ID:	369
UniProt ID:	P10398
Cytogenetics:	Xp11.3
Domains:	pkinase, TyrKc, DAG_PE-bind, S_TKc, RBD
Protein Families:	Druggable Genome, Protein Kinase

Protein Pathways: Acute myeloid leukemia, Bladder cancer, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Glioma, Insulin signaling pathway, Long-term depression, Long-term potentiation, Melanoma, Natural killer cell mediated cytotoxicity, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, Vascular smooth muscle contraction

Gene Summary: This proto-oncogene belongs to the RAF subfamily of the Ser/Thr protein kinase family, and maybe involved in cell growth and development. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2012] Transcript Variant: This variant (1) encodes the predominant isoform (1).