

## Product datasheet for **SC119127**

### 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:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

>OriGene ORF sequence for NM\_001654 edited  
 ATGGAGCCACCACGGGGCCCCCTGCCAATGGGGCCGAGCCATCCCAGGAGTGGGCACC  
 GTCAAAGTATACCTGCCCAACAAGCAACGCACGGTGGTACTGTCCGGATGGCATGAGT  
 GTCTACGACTCTCTAGACAAGGCCCTGAAGGTGCGGGGTCTAAATCAGGACTGCTGTGTG  
 GTCTACCGACTCATCAAGGGACGAAAGACGGTCACTGCCTGGGACACAGCCATTGCTCCC  
 CTGGATGGCGAGGAGCTCATTGTGAGGTCCTTGAAGATGTCCCGCTGACCATGCACAAT  
 TTTGTACGGAAGACCTTCTTCAGCCTGGCGTCTGTGACTTCTGCCTTAAGTTTCTGTTT  
 CATGGCTTCCGTTGCCAACCTGTGGCTACAAGTTCCACCAGCATTGTTCTCCAAGGTC  
 CCCACAGTCTGTGTTGACATGAGTACCAACCGCCAACAGTTCTACCACAGTGTCCAGGAT  
 TTGTCCGGAGGCTCCAGACAGCATGAGGCTCCCTCGAACCGCCCCCTGAATGAGTTGCTA  
 ACCCCCCAGGGTCCCAGCCCCCGCACCCAGCACTGTGACCCGGAGCACTTCCCCTTCCCT  
 GCCCCAGCCAATGCCCCCTACAGCGCATCCGCTCCACGTCCACTCCCAACGTCCATATG  
 GTCAGCACACGGCCCCATGGACTCCAACCTCATCCAGTCACTGGCCAGAGTTTCAGC  
 ACTGATGCTGCCGTAGTAGAGGAGGTAGTGATGGAACCCCCGGGGAGCCCCAGCCCA  
 GCCAGCGTGTCTCGGGGAGGAAGTCCCACATTCGAAGTCAACAGCAGAGCAGCGCGAG  
 CGGAAGTCTTGGCCGATGACAAGAAGAAAGTGAAGAACCTGGGGTACCGGGACTCAGGC  
 TATTACTGGGAGGTACCACCCAGTGAAGTGCAGCTGCTGAAGAGGATCGGGACGGGCTCG  
 TTTGGCACCGTGTTCGAGGGCGGTGGCATGGCGATGTGGCCGTGAAGGTGCTCAAGGTG  
 TCCCAGCCACAGCTGAGCAGGCCAGGCTTTCAGAAATGAGATGCAGGTGCTCAGGAAG  
 ACGCGACATGTCAACATCTTGCTGTTTATGGGCTTCATGACCCGGCCGGGATTTGCCATC  
 ATCACACAGTGGTGTGAGGGTCCAGCCTTACCATCACCTGCATGTGGCCGACACACGC  
 TTCGACATGGTCCAGCTCATCGACGTGGCCCGCAGACTGCCAGGGCATGGACTACCTC  
 CATGCCAAGAACATCATCCACCGAGATCTCAAGTCTAACAAACATCTTCTACATGAGGGG  
 CTCACGGTGAAGATCGGTGACTTTGGCTTGGCCACAGTGAAGACTCGATGGAGCGGGGCC  
 CAGCCCTTGGAGCAGCCCTCAGGATCTGTGCTGTGGATGGCAGCTGAGGTGATCCGTATG  
 CAGGACCCGAACCCCTACAGTTCAGTCCAGTCACTATGCCTACGGGTTGTGCTCTAC  
 GAGCTTATGACTGGTCACTGCCTTACAGCCACATTGGCTGCCGTGACCAGATTATCTTT  
 ATGGTGGGCCGTGGCTATCTGTCCCGGACCTCAGCAAAATCTCCAGCAACTGCCCAAG  
 GCCATGCGGCGCCTGCTGTGACTGCCTCAAGTTCAGCGGGAGGAGCGGCCCTTCTC  
 CCCCAGATCCTGGCCACAATTGAGCTGCTGCAACGGTCACTCCCCAAGATTGAGCGGAGT  
 GCCTCGGAACCCCTCTTGCACCCACCCAGGCCGATGAGTTGCCTGCCTACTCAGC  
 GCAGCCCGCCTTGTGCCTTAG

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001654 unedited  
 GGTTTACAATTGTAACGACTCATATAGGCGGCCGGAATTCGCACGAAGGCCAAAATG  
 GAGACGGCGCGGCTGTAGCGCGTGACAGGAGCCCCATGGCACCTGCCAGCCCCACCT  
 CAGCCCATCTTGACAAAATCTAAGGCTCCATGGAGCCACCACGGGGCCCCCTGCCAATG  
 GGGCCGAGCCATCCCGGACAGTGGGCACCGTCAAAGTATACCTGCCAACAAAGCAACGCA  
 CGGTGGTACTGTCCGGATGGCATGAGTGTCTACGACTCTCTAGACAAGGCCCTGAAGG  
 TGCGGGGTCTAAATCAGGACTGTGTGGTCTACCGACTCATCAAGGGACGAAAGACGG  
 TCACTGCCTGGGACACAGCCATTGCTCCCCTGGATGGCGAGGAGCTCATTGTGAGGTTCC  
 TTGAAGATGTCCCGTGAACATGCACAATTTGTACGGAAGACCTTCTTACGCTGGCGT  
 TCTGTGACTTCTGCCTTAAGTTTCTGTTCCATGGCTTCCGTTGCCAACCTGTGGCTACA  
 AGTTCACAGCATTGTTCTCCAAGGTCCCACAGTCTGTGTTGACATGAGTACCAACC  
 GCCAACAGTTCTACCACAGTGTCCAGGATTTGTCCGGAGGCTCCAGACAGCATGAGGCTC  
 CCTCGAACCGCCCCCTGAATGAGTTGCTAACCCCCCAGGTCCCAGNCCCCGCACCCAGC  
 ACTGTGACCCGNAGCACTTNNCCCTTCCCTGCCCAACCAATGCCCCCCCTACAGCGCATC  
 CGCTCCACGTCCACTCCCCACGTCCATATGGTCAACACCACGGCCCCCATGGACTCCAAC  
 TCATNCAGTCACTGGCCAAAGTTTCANCACTGATGCTNGCCGTAGTANAAGAAGTANTG  
 ATGGAAACCCCCGG

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_001654 unedited CGGCACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTCCAGCAGAATTCTGTGCTTC TTGGTGAAGAAAGAGAGGAGTCTTGAATGGCGGGGGAGACACAAAAGGGACCCCCAAA ATCCACATGGGGTGTGGGAACCCCAAAATCCAGTGGAAGGCACATCAGGCACAAATTC AGAGAGTTCTGAGTGGAATCCCTGCCACAAATCCCAGCCATTGGAGATGGAGGAGCTCC CAAAATTTAAAAGTATCCCCAAAGCCAAGAGGAAACCAATGATGGAGGAGACAGGGGGC TCAGTCTTTGGCGGGGTCCCCCAATTCAGAAGAACTGGAAAAGCACATGGGGACCCCC TCATCTCCAGGGTGGGAATGGGGATCCTGAGGCAGCATCAGGGCAGAGACGAACATT GATTGGCTGGTGGCAAGGCTCCTTGGCGTGGAGGGCTGAAATTGGCTCCCTGGTGGCTT GGGCGGGGCTAAGGCACAAGGCGGGCTGCGCTGAGTAGGCAGGCAGGCAACTCATCGGC CTGNGTGGGTGCAAGGAGGGTCCGAGGCACTCCGCTCAATCTTGGGGAGTGACCGTTG CAGCAGCTCAATTGTGGCCAGGATCTGGGGGAAGAGGGCCGCTCCTCCCGTGAACTT GAGGCANTCANACAGCANGCGCCGCATGGCCTTGGGGCANNTGCTGGAGATTTTGCCTGA GTCGGGGACAGATACCCCGGCCACATAAAGATATCTGGTCACGCACCCATGTGGCTGTA GGCANTGAGCCANTCATCTCCTANACCCACCCCGTAGCTANACTCTGACTGGAACCTT AAGGGGTCCGGTCTGTTACGATCACCTANCTGCCTCCAGCAAAATCTGGAGGCTGCT CAAGGCTGGCCCCCTCTTGAGTCTCCTGTGCCAACAAAACACGTCTTACCGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001654
<b>Insert Size:</b>	2380 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001654.1</a> , <a href="#">NP_001645.1</a>
<b>RefSeq Size:</b>	2466 bp
<b>RefSeq ORF:</b>	1821 bp
<b>Locus ID:</b>	369
<b>UniProt ID:</b>	<a href="#">P10398</a>
<b>Cytogenetics:</b>	Xp11.3
<b>Domains:</b>	pkinase, TyrKc, DAG_PE-bind, S_TKc, RBD
<b>Protein Families:</b>	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).