

## Product datasheet for **SC325431**

### AKAIN1 (NM\_001145194) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AKAIN1 (NM_001145194) Human Untagged Clone
Tag:	Tag Free
Symbol:	AKAIN1
Synonyms:	C18orf42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325431 representing NM_001145194. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
 ATGGTGTTCGCTCCAGGTGAGAACTGGAAATGAGCCTGAAGAGGTGAAGCTGCAGAATGCCAGCAAA  
 CAGATTGTGCAGAATGCAATCCTGCAAGCTGTGCAGCAAGTCTCCAGGAGAGTCAGCGCAGAGAAGAG  
 AGAATCAGTGACAACCGGACCACATCCAACCTGGGCGTTGGGGAGTTAACCAAGAAGCACGAAAAGAAG  
 TAA  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001145194
Insert Size:	210 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.


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<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>	<u><a href="#">NM_001145194.1</a></u>
<b>RefSeq Size:</b>	2302 bp
<b>RefSeq ORF:</b>	210 bp
<b>Locus ID:</b>	642597
<b>UniProt ID:</b>	<u><a href="#">P0CW23</a></u>
<b>Cytogenetics:</b>	18p11.31
<b>MW:</b>	7.8 kDa
<b>Gene Summary:</b>	Protein kinase A (PKA)-binding protein. Binds to type II regulatory subunits of protein kinase A (PKA) and may block the A-kinase anchoring protein (AKAP)-mediated subcellular localization of PKA (PubMed:25653177).[UniProtKB/Swiss-Prot Function]