

Product datasheet for RC202590

S100 calcium binding protein A14 (S100A14) (NM_020672) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: S100 calcium binding protein A14 (S100A14) (NM_020672) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: S100 calcium binding protein A14
Synonyms: BCMP84; S100A15
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202590 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGGACAGTGTTCGGTCAGCCAACGCAGAGGATGCTCAGGAATTCAGTGATGTGGAGAGGGCCATTGAGA
 CCCTCATCAAGAACTTTACCAGTACTCCGTGGAGGGTGGGAAGGAGACGCTGACCCCTTCTGAGCTACG
 GGACCTGGTCACCCAGCAGCTGCCCATCTCATGCCGAGCAACTGTGGCCTGGAAGAGAAAATTGCCAAC
 CTGGGCAGCTGCAATGACTCTAACTGGAGTTCAGGAGTTCTGGGAGCTGATTGGAGAAGCGCCAAGA
 GTGTGAAGCTGGAGAGGCCTGTCCGGGGGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202590 protein sequence
 Red=Cloning site Green=Tags(s)
 MGQCRSANAEDAQEFSDVERAIETLIKFNHQYSVEGGKETLTPSELRDVLVTQQLPHLMPSNCGLEEKIAN
 LGSCNDSKLEFRSFWELIGEAAKSVKLERPVRGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6144_g11.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_020672

ORF Size: 312 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_020672.3](#)

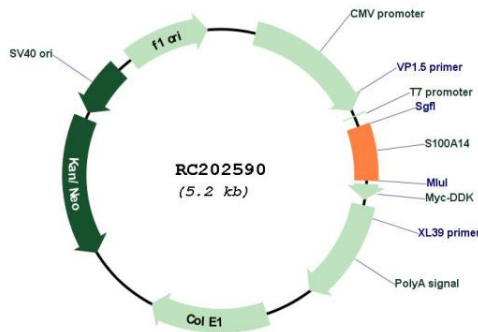
RefSeq Size: 1075 bp

RefSeq ORF: 315 bp

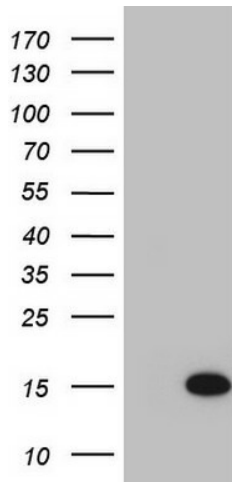
Locus ID: 57402
UniProt ID: [Q9HCY8](#)
Cytogenetics: 1q21.3
Domains: S_100
MW: 11.7 kDa

Gene Summary: This gene encodes a member of the S100 protein family which contains an EF-hand motif and binds calcium. The gene is located in a cluster of S100 genes on chromosome 1. Levels of the encoded protein have been found to be lower in cancerous tissue and associated with metastasis suggesting a tumor suppressor function (PMID: 19956863, 19351828). [provided by RefSeq, Dec 2011]

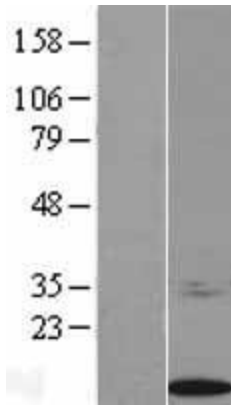
Product images:



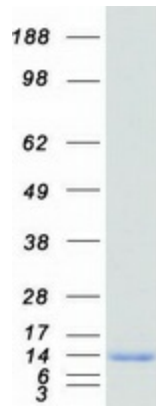
Circular map for RC202590



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY S100A14 (Cat# RC202590, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-S100A14 (Cat# [TA807603])(1:2000). Positive lysates [LY402803] (100ug) and [LC402803] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402803]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202590 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified S100A14 protein (Cat# [TP302590]). The protein was produced from HEK293T cells transfected with S100A14 cDNA clone (Cat# RC202590) using MegaTran 2.0 (Cat# [TT210002]).