

Product datasheet for MR223453

S100a3 (NM_011310) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: S100a3 (NM_011310) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: S100a3
Synonyms: S100E
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR223453 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGACCCGGCCCTGGAGCAGGCAGTAGCTGCCATCGTGTGCACCTTCAGGAGTATGCAGGGCGCTGTG
 GGGATAAATAACAAGATCTGCCAGTCGGAGCTCAAGGAGTTGTTGCAGAAGGAGCTGCCACCTGGACGCC
 GAGTGAGTTCGGGAGTGTGACTACAATAAATTCATGAGTGTCTGGATACCAACAAGACTGCGAAGTG
 GACTTTGGGGAGTACGTGCGCTCACTTGCCAGCCTCTGTCTCTACTGCCACGAGTACTTCAAAGAGTGCC
 CCCCTGAGCCTCCTTGCCCCAG

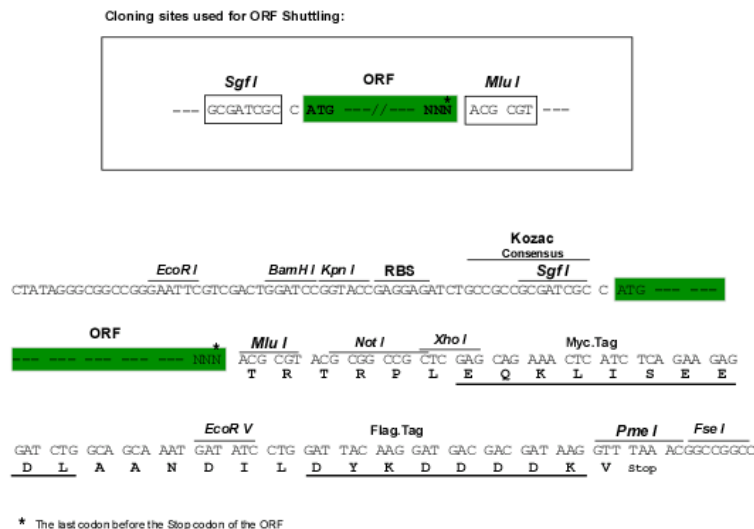
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223453 protein sequence
 Red=Cloning site Green=Tags(s)
 MTRPLEQAVAAIVCTFQYAGRCGDYKICQSELKELLQKELPTWTPSEFREC DYNKFM SVLD TNKDCEV
 DFGEYVRSLASLCLYCHEYFKECPPEPPCPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI


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Cloning Scheme:


ACCN: NM_011310

ORF Size: 306 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.

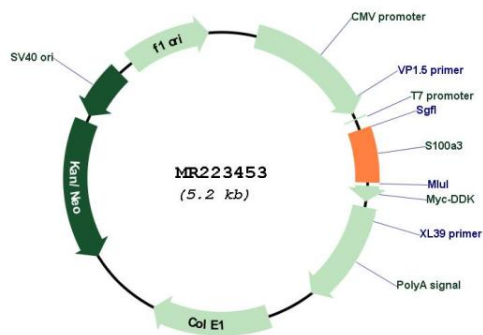
RefSeq: [NM_011310.3](#)

RefSeq Size: 712 bp

RefSeq ORF: 306 bp

Locus ID:	20197
UniProt ID:	P62818
Cytogenetics:	3 39.26 cM
MW:	11.7 kDa
Gene Summary:	Binds both calcium and zinc. May be involved in calcium-dependent cuticle cell differentiation, hair shaft and hair cuticular barrier formation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223453