

Product datasheet for **MG210862**

Cars (NM_013742) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cars (NM_013742) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cars
Synonyms:	CA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MG210862 representing NM_013742
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
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 GTACAAGGAGTATCTGCAATGTTACAGAATGGCAGCCTCCAG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210862 representing NM_013742
 Red=Cloning site Green=Tags(s)

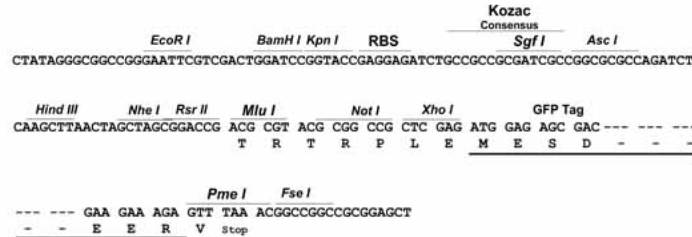
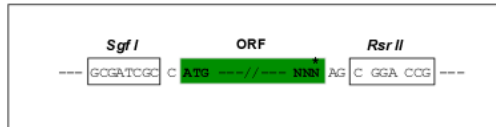
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 GQFEKWEAELEVELNKNFYGKKTAVHEALCDNIDTRTVMEEMRALVSQCNL YMAARKAERRRPNRALLENI
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 RDDILPELVGRFEDHEGLPTVVKLVDRDTLLKEKEGKKRAEEKRRKKEEAARKKQEQA AKLAKMKIPP
 SEMFLSEVNKYSKFDENGLPTHDTGKELSKGQAKKLLKLLFEAQEKL YKEYLQMLQNGSLQ

SGPTRRRLE - GFP Tag - V

Restriction Sites: Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_013742

ORF Size: 2493 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_013742.5](#), [NP_038770.3](#)

RefSeq Size: 3236 bp

RefSeq ORF: 2496 bp

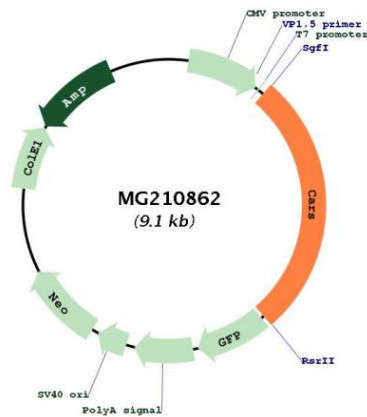
Locus ID: 27267

UniProt ID: [Q9ER72](#)

Cytogenetics: 7 88.25 cM

Gene Summary: Catalyzes the ATP-dependent ligation of cysteine to tRNA(Cys).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210862