

## Product datasheet for TP511342

### Aars (NM\_146217) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse alanyl-tRNA synthetase (Aars), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211342 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MDATLTAREIRERFINFFRRNEHTYVHSSATIPLDDPTLLFANAGMNQFKPIFLNTIDPSHPMAKLSRAA NTQKCIRAGGKHNDLDDVGKDVYHHTFFEMLSWSFGDYFKELACKMALELLTQEFGIPVERLYVTYFGG DEAAGLEPDLECRQIWQNLGLDEARILPGNMKDNFWEWGDTGPCGPCSEIHYDRIGGRDAAHLVNQDDPN VLEIWNLVFIQYNRES DGVLKPLPKSIDTGMGLERLVSVLQNKMSNYD TDLFMPYFEAIQKGTGARPYT GKVGAEADADGIDMAYRVLADHARTITVALADGGRPDNTGRGYLRRILRRAVRYSHEKLNASRGFFATLV DVVQSLGDAFPELKKDPEMVKDIINEEVQFLKTLRGRRILDRKIQLSGDCKTIPGDTAWLLYD TYGF PVDLTGLIAEEKGLVDMNGFEEERRLAQLKSQGGAGDEDLIMLDIYAEELRAKGLEATDDSPKYNYQ SDSSGSYVFECTVATVLALRREKMFVDEVVTGQECGVLDKTCFYAEQGGQIYDEGYLVKVDSSSEDKTE FTVKNAQVRGGYVLHIGTIYGNLKVGDQVRLFIDEPRRRPVMSNHTATHILNFALRSVLGEADQKGLVA PDLRFDF TAKGAMSTQIQKAAEIVNGMIEAAKPVYTQDCPLAAAKAIQGLRAVFDETYDPVRVVSIG VPVSELLDDPCGPAGSLTSVEFCGGTHLRNSSHAGAFVIVTEEAIKGI RRIVAVTGAEAQKALRKSETL KKSLSAMEAKVKAQTAPNKDVQREIADLGEALATAVIPQWQKDEQRETLKSLKKVMDDLDRASKADVQKR VLEKTKQLIDSNPNQPLVILEMESGASAKALNEALKLFKTHSPQTSAMLFTVDNEAGKITCLCQVPQNAA NRGLKASEWVQVQVSLMDGKGGGKDMAQATGKNVGCLEALQLATSFAQLRLGDVKN</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-MYC/DDK
Predicted MW:	106.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_666329</a>
<b>Locus ID:</b>	234734
<b>UniProt ID:</b>	<a href="#">Q8BGQ7</a> , <a href="#">Q3UD67</a>
<b>RefSeq Size:</b>	3728
<b>Cytogenetics:</b>	8 E1
<b>RefSeq ORF:</b>	2907
<b>Synonyms:</b>	AI316495; C76919; sti
<b>Summary:</b>	Catalyzes the attachment of alanine to tRNA(Ala) in a two-step reaction: alanine is first activated by ATP to form Ala-AMP and then transferred to the acceptor end of tRNA(Ala) (PubMed:16906134, PubMed:20010690, PubMed:25422440, PubMed:27622773). Also edits incorrectly charged tRNA(Ala) via its editing domain (PubMed:16906134, PubMed:20010690, PubMed:25422440, PubMed:29769718).[UniProtKB/Swiss-Prot Function]