

Product datasheet for **RC215029**

TARS3 (NM_152334) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TARS3 (NM_152334) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TARS3
Synonyms:	TARSL2; ThrRS-L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC215029 representing NM_152334
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCGGCCGAGGCCCTGGCGCGGAGGCCGTGGCGTCGCGCCTGGAGCGGCAGGAGGAGACATCCGCT
GGCTGTGGTCGGAGGTCGAGCGCCTGAGGGACGAGCAGCTGAACGCGCCCTACAGCTGCCAGGCGGAGGG
GCCGTGCCTCACGCGGGAGGTGGCGCAGCTCCGGGCCGAGAAGTGCACCTGCGCCACCGCCTGTGCAGC
CTGCGGCTGTGCCTCGCCGAGGAGCGGAGCCAGGCCACGCTGGAGAGCGCGGAGCTAGAGGCGGCGC
AGGAGGCCGCGCACAGCCTCCTCCTAGTCAAAGCCAAGACAAGGACATGAAAAAGAAAATGAAGGA
AAGCGAGGCTGACAGCGAGGTGAAGCATCAACCAATTTTCATAAAAAGAAAGATTGAAGCTTTTTGAAATA
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TAAGAGTGGCTGATGGGCAAACAGTGAAGGGGAAGTCTGGAAAAACAACGCCTTACCAAGTGGCTGCTGA
AATTAGTCAGGAACTGGCTGAAAGCACGGTAATAGCCAAAGTCAATGGTGAAGTGTGGGACTGGACCGC
CCATTGGAAGGGGACTCTTCTCTAGAGCTGCTTACATTTGATAATGAGGAAGCTCAAGCTGTGTACTGGC
ACTCCAGTGCTCACATTCTTGGGAGGCCATGGAGCTTTACTATGGAGGCCACCTGTGCTACGGTCCGCC
CATTGAAAATGGATTTTATTATGACATGTTCAATTGAAGACAGAGCAGTGTCCAGCACAGAATTGTGAGCC
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TCCTCCTGGAAATGTTTAAAGTACAATAAATTTAAATGCCGCATTTCTGAATGAGAAAGTTAACACTGCAAC
TACCACCGTGTACAGGTGCGGTCATTAATTGACCTTTGCAAAGGTCCACATGTAAGACACACTGGAAAA
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AGAGGATCTATGGAATATCCTTTCTGATAACAAGATGATGAGAGACTGGGAAAAGTTCCAAGGAAGC
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CCAGCAGGACGATGCTCACATTTTTTGCACAGTGGAGCAGATTGAAGAAGAAATAAAGGGGTGTTTGCAG
TTTTTGAATCTGTTTACTCAACATTTGGCTTCTCCTTTCAATTAACCTGTCAACAAGCCGGAAAAT
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ACCGTGGAAAATGAACCCAGGAGATGGAGCATTTTATGGCCCTAAAATGACATAAAAATCAAGGATGCT
ATTGGCAGATACCATCAATGTGCTACAATTCAGCTGGACTTCCAAGTGCCTATTAGATTTAATCTCACAT
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GACAACAAAATTCATGGAGAGATTTTAGTAACTTCTGCCATTGATAAACTGAAGAATCTCAGGAAGACAC
GGACACTCAATGCTGAGGAGGCCTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC215029 representing NM_152334
Red=Cloning site Green=Tags(s)

MAAEALAAEAVASRLERQEEDIRWLWSEVERLRDEQLNAPYSCQAEGPCLTREVAQLRAENCDLRHRLCS
LRLCLAEERSRQATLESAAEAAQEAGAQQPPPSQSDKDMKKKKMKESEADSEVKHQPIFIKERLKLFEI
LKKDHQLLLLAIYGKKGDTSNIIITVRVADGQTVQGEVWKTTPYQVAAEISQELAESTVIKVNGLWDLDR
PLEGDSSLELLTFDNEEAQAVYWHSSAHILGEAMELYYGGHLCYGPPIENGFYYDMFIEDRAVSSTELSA
LENICKAIIKEKQPFERLEVSKEILLEMFYKFKCRILNEKVNTATTTVYRCGPLIDLCKGPHVRHTGK
IKTIKIFKNSSTYWEGNPEMETLQRIYGISFPDNKMMRDWEKFQEEAKNRDHRKIGKEQELFFFHDLSPG
SCFFLPRGAFIYNTLTDFIREEYHKRDFTEVLSNMYNSKLWEASGHWQHYSENMFTEIEKDTFALKPM
NCPGHCLMFHRPRSWREMPIRFADFGVLHRNELSGTSLGLTRVRRFQQDDAHIFCTVEQIEEEIKGCLQ
FLQSVYSTFGFSFQLNLSTRPENFLGEIEMWNEAEKQLQNSLMDFGEPWKMNPGDGA FYGPKIDIKIKDA
IGRYHQCATIQDFQLPIRFNLTYVSKDGDKKRPVIIHRAILGSVERMIAILSENYGGKWPFWLSPRQV
MVIPVGPCTCEKYLQVSSEFFEEGFMADVLDHSCSLNKKIRNAQLAQYNFILVVGEEKEKIDNAVNVTR
DNKIHGEILVTS AIDKLNLRKTRTLNAEEAF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8103_h07.zip

Restriction Sites: Sgfl-Mlul

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_152334.3](#)

RefSeq Size: 3300 bp

RefSeq ORF: 2409 bp

Locus ID: 123283

UniProt ID: [A2RTX5](#)

Cytogenetics: 15q26.3

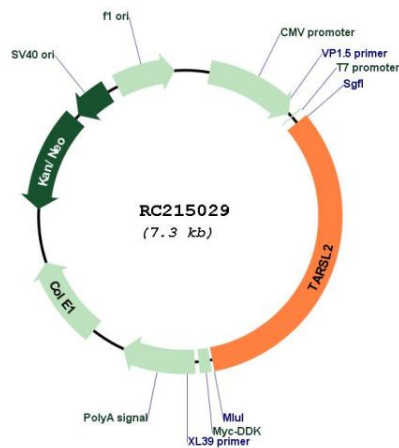
Domains: tRNA-synt_2b, HGTP_anticonodon

Protein Pathways: Aminoacyl-tRNA biosynthesis

MW: 92.6 kDa

Gene Summary: Catalyzes the attachment of threonine to tRNA(Thr) in a two-step reaction: threonine is first activated by ATP to form Thr-AMP and then transferred to the acceptor end of tRNA(Thr). Also edits incorrectly charged tRNA(Thr) via its editing domain, at the post-transfer stage. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC215029