

## Product datasheet for **RG215029**

### **TARS3 (NM\_152334) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TARS3 (NM_152334) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TARS3
Synonyms:	TARSL2; ThrRS-L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG215029 representing NM\_152334  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGCCGAGGCCCTGGCGGCCGAGGCCGTGGCGTCGCGCCTGGAGCGCAGGAGGAGACATCCGCT  
 GGCTGTGGTCGGAGGTCGAGCGCCTGAGGGACGAGCAGCTGAACGCGCCCTACAGCTGCCAGGCGGAGGG  
 GCCGTGCCTCACGCGGGAGGTGGCGCAGCTCCGGGCCGAGAAGTGCACCTGCGCCACCGCCTGTGCAGC  
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 AAGCGAGGCTGACAGCGAGGTGAAGCATCAACCAATTTTCATAAAAAGAAAGATTGAAGCTTTTTGAAATA  
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 CATTGAAAATGGATTTTATTATGACATGTTCAATTGAAGACAGAGCAGTGTCCAGCACAGAATTGTGAGCC  
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 TCAGTATAATTTTATTTTGGTGGTTGGAGAAAAGAAAAGATAGATAATGCTGTAACGTGCGAACAAGA  
 GACAACAAAATTCATGGAGAGATTTTAGTAACTTCTGCCATTGATAAACTGAAGAATCTCAGGAAGACAC  
 GGACACTCAATGCTGAGGAGGCCTTT

**ACCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

Protein Sequence: >RG215029 representing NM\_152334  
Red=Cloning site Green=Tags(s)

```
MAAEALAAEAVASRLERQEEDIRWLWSEVERLRDEQLNAPYSCQAEGPCLTREVAQLRAENCDLRHRLCS
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LKKDHQLLLLAIYGKKGDTSNIIITVRVADGQTVQGEVWKTTPYQVAAEISQELAESTVIKVNGLWDLDR
PLEGDSSLELLTFDNEEAQAVYWHSSAHILGEAMELYYGGHLCYGPPPIENGFYYDMFIEDRAVSSTELSA
LENICKAIIKEKQPFERLEVSKEILLEMFKYNKFKCRILNEKVNTATTTVYRCGPLIDLCKGPHVRHTGK
IKTIKIFKNSSTYWEGNPEMETLQRIYGISFPDNKMMRDWEKFQEEAKNRDHRKIGKEQELFFFHDLSPG
SCFFLPRGAFIYNLTDFIGREEYHKRDFTEVLSNMYNSKLWEASGHWQHYSNMFTFEIEKDTFALKPM
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IGRYHQCATIQDFQLPIRFNLTYVSKDGDGDKRPVIIHRAILGSVERMIAILSENYGGKWPFWLSPRQV
MVI PVGPTCEKYALQVSSEFFEEGF MADVDLDHSC TLNKKIRNAQLAQYNFILVVGEEKEKIDNAVNVTR
DNKIHGEILVTS AIDKLNLRKTRTLN AEEAF
```

TRTRPLE - GFP Tag - V

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](#)

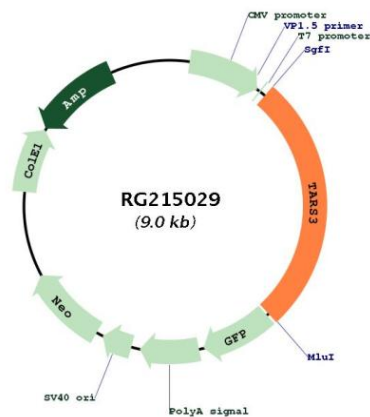
**Cytogenetics:** 15q26.3

**Domains:** tRNA-synt\_2b, HGTP\_anticonodon

**Protein Pathways:** Aminoacyl-tRNA biosynthesis

**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 RG215029