

Product datasheet for **SC322455**

Tyrosyl tRNA synthetase (YARS) (NM_003680) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tyrosyl tRNA synthetase (YARS) (NM_003680) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tyrosyl tRNA synthetase
Synonyms:	CMTDIC; TYRRS; YARS; YRS; YTS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322455
 GGGGCTCTGGTGCCGGGCTGAGCGGGGAAGCAGGGGTAGCGGAGCCATGGGGGACGCTC
 CCAGCCCTGAAGAGAACTGCACCTTATCACCCGGAACCTGCAGGAGGTTCTGGGGGAAG
 AGAAGCTGAAGGAGATACTGAAGGAGCGGGAACCTAAAATTTACTGGGGAACGGCAACCA
 CGGGCAAACCACATGTGGCTTACTTTGTGCCATGTCAAAGATTGCAGACTTCTTAAAGG
 CAGGGTGTGAGGTAACAATTCTGTTTGGGACCTCCACGCATACCTGGATAACATGAAAG
 CCCCATGGGAACCTCTAGAACTCCGAGTCAGTTACTATGAGAATGTGATCAAAGCAATGC
 TGGAGAGCATTGGTGTGCCCTTGGAGAAGCTCAAGTTCATCAAAGGCACCTGATTACCAGC
 TCAGCAAAGAGTACACACTAGATGTGTACAGACTCTCCTCCGTGGTCACACAGCAGCATT
 CCAAGAAGGCTGGAGCTGAGGTGGTAAAGCAGGTGGAGCACCTTTGCTGAGTGGCCTCT
 TATACCCCGACTGCAGGCTTTGGATGAAGAGTATTTAAAAGTAGATGCCCAATTTGGAG
 GCATTGATCAGAGAAAGATTTTCACCTTTGCAGAGAAGTACCTCCCTGCACCTGGCTATT
 CAAAACGGGTCCATCTGATGAATCCTATGGTTCAGGATTAACAGGCAGCAAAATGAGCT
 CTTCAGAAAGAGGAGTCCAAGATTGATCTCCTTGATCGGAAGGAGGATGTGAAGAAAAAC
 TGAAGAAGGCCTTCTGTGAGCCAGGAAATGTGGAGAACAATGGGGTTCTGTCCTTCATCA
 AGCATGTCTTTTTCCCTTAAGTCCGAGTTTGTGATCCTACGAGATGAGAAATGGGGTG
 GAAACAAAACCTACACAGCTTACGTGGACCTGGAAAAGGACTTTGCTGCTGAGGTTGTAC
 ATCCTGGAGACCTGAAGAATTCTGTTGAAGTCGCACTGAACAAGTTGCTGGATCCAATCC
 GGGAAAAGTTTAAATACCCTGCCCTGAAAAAATGGCCAGCGCTGCCTACCCAGATCCCT
 CAAAGCAGAAGCCAATGGCCAAAGGCCCTGCCAAGAATTCAGAACCAGAGGAGGTCATCC
 CATCCCGCTGGATATCCGTGTGGGAAAATCATCACTGTGGAGAAGCACCCAGATGCAG
 ACAGCCTGTATGTAGAGAAGATTGACGTGGGGAAAGCTGAACCACGGACTGTGGTGAAGC
 GCCTGGTACAGTTCGTGCCCAAGGAGAACTGCAGGACAGGCTGGTAGTGGTGTGCA
 ACCTGAAACCCAGAAAGATGAGAGGAGTCGAGTCCCAAGGCATGCTTCTGTGTGCTTCTA
 TAGAAGGGATAAACCCAGGTTGAACCTCTGGACCCTCCGCGAGGCTCTGCTCCTGGTG
 AGCACGTGTTTGTGAAGGGCTATGAAAAGGGCCAACCAGATGAGGAGCTCAAGCCCAAGA
 AGAAAGTCTTCGAGAAGTTGCAGGCTGACTTCAAATTTCTGAGGAGTGCATCGCACAGT
 GGAAGCAAACCAACTTCATGACCAAGCTGGGCTCCATTTCTGTAATCGCTGAAAGGGG
 GGAACATTAGCTAGCCAGCCAGCATCTTCCCCCTTCTCCACCACTGAGTCATCTGCT
 GTCTCTCAGTCTGCTCCATCCATCACCCATTTACCCATCTCTCAGGACACGGAAGCAGC
 GGGTTTGGACTCTTTATTCGGTGCAGAACTCGGCAAGGGGAGCTTACCCTCCCCAGAAC
 CCAGGATCATCTGTCTGGCTGCAGTGAAGACCAACCCCTAACAAAGGGCTGGGCCACAG
 CAGGGAGTCCAGCCCTACCTTCTCCCTTGGCAGCTGGAGAAATCTGGTTTCAATATAAC
 TCATTTAAAAATTTATGCCACAGTCTTATAATTGGAAAAATACTGGTGGCCAGGTTTTTC
 TTGGAGTTATCCAAGCAGCTGCGCCCCTAGCTGGGATCTGGTACCTGGACTAGGCTAATT
 ACAGCTTCTCCCCAACAGGAACTGTGGGATTTGAAAAGGAAAGGGAAGGGAAAACAGAG
 AACCTAGTGGTCTACCAAGTGGTTGGCAACTTTCCCAATGTCTGCTTACTCTGAGGCTTG
 GCACTGGGGGCCAGGGCTGCCCCAGGGCTCCTGGAATTTCCCTTGATCCAGCTAGGCTG
 GGACACTCCCTAAATCAGCTGCGTGTGTTAGCATCAGGCAGAATGAATGGCAGAGAGTG
 ATTCTGTCTTATAGAGGGTGGGTACTTCTCCGTAAGGCATCTCAGTCAAATCCCCTATC
 ACTGTCATAAATCAAATAAAATGTCTGAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_003680

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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_003680.2 , NP_003671.1
RefSeq Size:	3137 bp
RefSeq ORF:	1587 bp
Locus ID:	8565
UniProt ID:	P54577
Cytogenetics:	1p35.1
Domains:	tRNA-synt_1b, tRNA_bind
Protein Families:	Druggable Genome
Protein Pathways:	Aminoacyl-tRNA biosynthesis
Gene Summary:	Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Tyrosyl-tRNA synthetase belongs to the class I tRNA synthetase family. Cytokine activities have also been observed for the human tyrosyl-tRNA synthetase, after it is split into two parts, an N-terminal fragment that harbors the catalytic site and a C-terminal fragment found only in the mammalian enzyme. The N-terminal fragment is an interleukin-8-like cytokine, whereas the released C-terminal fragment is an EMAP II-like cytokine. [provided by RefSeq, Jul 2008]