

Product datasheet for **SC321755**

TGDS (NM_014305) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TGDS (NM_014305) Human Untagged Clone
Tag:	Tag Free
Symbol:	TGDS
Synonyms:	CATMANS; SDR2E1; TDPGD
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 NM_014305.2
 CGCGGCGGAACCTCCCTGCGCTTTTCAGACCATACTCTTTACGGTACTAGGCACTGCTGA
 GCTGGGAGATGTCGGCGGCGTGTGGGAGGAACCGTGGGGTCTTCCCGCGGCTTTGCGA
 AGCGGGTCTGCTGACCGGCGGTGCTGGTTTCATTGCATCACATATGATTGTCTCTTTAG
 TGAAGAATTATCCAACTATATGATCATAAATCTAGACAAGCTGGATTACTGTGCAAGCT
 TGAAGAATCTTGAAACCATTTCTAACAAACAGAACTACAAATTTATACAGGGTGACATAT
 GTGATTCTCACTTTGTGAACTGCTTTTTGAAACAGAGAAAATAGATATAGTACTACATT
 TTGCCGCACAAACACATGTAGATCTTTTCATTTCGTACGTGCCTTTGAGTTTACCTATGTTA
 ATGTTTATGGCACTCACGTTTTGGTAAGTGCTGCTCATGAAGCCAGAGTGAGAAAGTTTA
 TTTATGTCAGCACAGATGAAGTATATGGTGGCAGTCTTGATAAGGAATTTGATGAATCTT
 CACCCAAACAACCTACAAATCCTTATGCATCATCTAAAGCAGCTGCTGAATGTTTTGTAC
 AGTCTTACTGGGAACAATATAAGTTTCCAGTTGTCATCACAAGAAGCAGTAATGTTTATG
 GACCACATCAATATCCAGAAAAGGTTATTCCAAAATTTATATCTTTGCTACAGCACAAACA
 GGAAATGTTGCATTATGGGTGAGGGCTTCAAACAAGAACTTCCTTTATGCTACTGATG
 TTGTAGAAGCATTCTCACTGTCCTCAAAAAGGGAAACCAGGTGAAATTTATAACATCG
 GAACCAATTTTGAATGTCAGTTGTCCAGCTTGCCAAAGAACTAATACAACCTGATCAAAG
 AGACCAATTCAGAGTCTGAAATGGAAAATTGGGTTGATTATGTTAATGATAGACCCACCA
 ATGACATGAGATACCCAATGAAGTCAGAAAAAATACATGGCTTAGGATGGAGACCTAAAG
 TGCCTTGGAAGAAGGAATAAGAAAAACAATTGAATGGTACAGAGAGAATTTTCACAACT
 GGAAGAATGTGGAAAAGGCATTAGAACCCTTTCCGGTATAATCACCATTATATAGTCGA
 GACAGTTGTCAAAGAAGAAAGTTATCCTACCTCGCCAAGTGGTATGAAATTAAGTGACCA
 AATGAAGTGCCTCTTTTCTTTTGAATTAGATTCACTTTCTGTATAAAATTCAAAT
 GCAGAATGCCTCAATCTTTGGGAGAGTTTCAGTACTGGCATAGAATTTAAATGTCAAAAT
 TCTTTCTGAAACCCTTTCTCCTAGAACTAGGAAATAATAGGTGTAGAAGACTCTCCCTA
 AGGGTAGCCAGGAAGAAGTCTCCTGATTGCGACACCATGAGGGGTAGTGGTGCTAGGGA
 GAAGGCAACCTTCACTGGTTTTGAACTCAGTGCCTAAGAAAGTCTCTGAAATGTTGTTTT
 TTAGGCAATATAGGATGTCTTAGGCCCTAATCACCATTCTTTTTTAAGATCTGATATG
 CTATCATTGCCTTAATAATGGAACAAAATAGAAGCATATCTAACACTTTTTAAATTGATA
 ATTTTGTAAAATTGATTACGTTGAATGCTTTTTAAGAGAAGTGTGTAAGTTTTTATATT
 TTCACAATTAACGTATGTAACCTTGTATCAGAAATTTATCATGTTTACTGTTTAAAT
 GATTGTATTTATAAAATTGTCAATATCTTAATGTATTTAATGTAGAATATTGCTTTTTAA
 AATAATGTTTTATTTTGTGTAGAAAAATAAAAAAAATTTGATTATAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_014305

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:	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:	<u>NM_014305.2, NP_055120.1</u>
RefSeq Size:	1952 bp
RefSeq ORF:	1053 bp
Locus ID:	23483
UniProt ID:	<u>O95455</u>
Cytogenetics:	13q32.1
Domains:	Epimerase
Gene Summary:	The protein encoded by this gene is a member of the short-chain dehydrogenases/reductases (SDR) superfamily, and is thought to contain a nicotinamide adenine dinucleotide (NAD) binding domain. This large SDR family of enzymes is involved in the metabolism of a variety of compounds, including prostaglandins, retinoids, lipids, steroid hormones, and xenobiotics. Mutations in this gene have been associated with Catel-Manzke syndrome, which is characterized by Pierre Robin sequence, and radial deviation of the index finger due to the presence of an accessory bone between the index finger and its proximal phalanx. Pierre Robin sequence is defined by an undersized jaw, backwards displacement of the tongue base that causes an obstruction of the airways, and can also be associated with a cleft palate. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015] Transcript Variant: This variant (1) encodes the longest isoform (1).