

Product datasheet for SC317486

CRYL1 (NM_015974) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRYL1 (NM_015974) Human Untagged Clone
Tag:	Tag Free
Symbol:	CRYL1
Synonyms:	GDH; gul3DH; HEL30; lambda-CRY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317486 representing NM_015974. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGCGTCCTCCGCGCCGGCTGCGTGGTGATCGTTGGCAGTGGAGTCATTGGGCGAAGCTGGGCCATG
CTGTTTGGCAGTGGAGGCTTCCAGGTGAACTCTATGACATTGAGCAACAGCAGATAAGGAACGCCCTG
GAAAACATCAGAAAGGAGATGAAGTTGCTGGAGCAGGCAGGTTCTCTGAAAGGCTCCCTGAGTGTGGAA
GAGCAGCTGTCACTCATCAGTGGTTGTCCCAATATCCAAGAAGCAGTAGAGGGTGCCATGCACATTCAG
GAATGTGTTCCAGAAGATCTAGAACTGAAGAAGAAGATTTTGTCTCAGTTAGATTCCATCATTGATGAT
CGAGTGATCTTAAGCAGTCCACTTCTTGTCTCATGCCTTCCAAGTTGTTTGTGGCTTGGTCCATGTG
AAGCAATGCATCGTGGCTCATCCTGTGAATCCGCCATACTACATCCCCTGGTTGAGCTGGTCCCCCAC
CCGGAGACGGCCCTACGACAGTGGACAGAACCCACGCCCTGATGAAGAAGATTGGACAGTGCCCCATG
CGAGTCCAGAAGGAGGTGGCCGGCTTCTGTGTAACCGCTGCAATATGCAATCATCAGCGAGGCCCTGG
CGGCTAGTGGAGGAAGGAATCGTGTCTCCTAGTGACCTGGACCTTGTGATGTCAGAAGGGTTGGGCATG
CGGTATGCATTTCATTGGACCCCTGGAAACCATGCATCTCAATGCAGAAGGTATGTTAAGCTACTGCGAC
AGATACAGCGAAGGCATAAAACATGTCTACAGACTTTTGGACCCATTCCAGAGTTTTCCAGGGCCACT
GCTGAGAAGGTTAACCAGGACATGTGCATGAAGTCCCTGATGACCCGGAGCACTTAGCTGCCAGGAGG
CAGTGGAGGGACGAGTGCCTCATGAGACTCGCCAAGTTGAAGAGTCAAGTGCAGCCCCAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	SgfI-MluI
ACCN:	NM_015974
Insert Size:	960 bp



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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:	<u>NM_015974.2</u>
RefSeq Size:	1516 bp
RefSeq ORF:	960 bp
Locus ID:	51084
UniProt ID:	<u>Q9Y2S2</u>
Cytogenetics:	13q12.11
Domains:	3HCDH, 3HCDH_N
MW:	35.4 kDa
Gene Summary:	The uronate cycle functions as an alternative glucose metabolic pathway, accounting for about 5% of daily glucose catabolism. The product of this gene catalyzes the dehydrogenation of L-gulonate into dehydro-L-gulonate in the uronate cycle. The enzyme requires NAD(H) as a coenzyme, and is inhibited by inorganic phosphate. A similar gene in the rabbit is thought to serve a structural role in the lens of the eye. [provided by RefSeq, Jul 2008]