

Product datasheet for RC212304

CRYL1 (NM_015974) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRYL1 (NM_015974) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CRYL1
Synonyms:	GDH; gul3DH; HEL30; lambda-CRY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212304 representing NM_015974 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCCTCCGCGCCGGCTGCGTGGTATCGTTGGCAGTGGAGTCATTGGGCGAAGCTGGGCCATGC
TGTTTGCCAGTGGAGGCTTCCAGGTGAACTCTATGACATTGAGCAACAGCAGATAAGGAACGCCCTGGA
AAACATCAGAAAGGAGATGAAGTTGCTGGAGCAGGCAGGTTCTCTGAAAGGCTCCCTGAGTGTGGAAGAG
CAGCTGCACTCATCAGTGGTTGTCCCAATATCCAAGAAGCAGTAGAGGGTGCCATGCACATTCCAGGAAT
GTGTTCCAGAAGATCTAGAACTGAAGAAGAAGATTTTTGCTCAGTTAGATTCCATCATTGATGATCGAGT
GATCTTAAGCAGTTCACCTTCTTGTCTCATGCCTTCCAAGTTGTTTGGCTGGCTTGGTCCATGTGAAGCAA
TGCATCGTGGCTCATCCTGTGAATCCGCCATACTACATCCCGCTGGTTGAGCTGGTCCCCACCCGGAGA
CGGCCCTACGACAGTGGACAGAACCCACGCCCTGATGAAGAAGATTGGACAGTGCCCCATGCGAGTCCA
GAAGGAGGTGGCCGGCTTCGTTCTGAACCGCTGCAATATGCAATCATCAGCGAGGCCTGGCCGGCTAGTG
GAGGAAGGAATCGTGTCTCCTAGTGACCTGGACCTTGTCATGTCAGAAGGGTTGGCATGCGGTATGCAT
TCATTGGACCCCTGAAACCATGCATCTCAATGCAGAAGGTATGTTAAGCTACTGCGACAGATACAGCGA
AGGCATAAAACATGTCTACAGACTTTTGGACCCATTCCAGAGTTTTCCAGGGCCACTGCTGAGAAGGTT
AACCAGGACATGTGCATGAAGGTCCTGATGACCCGGAGCACTTAGCTGCCAGGAGGCAGTGGAGGGACG
AGTGCCATGAGACTCGCCAAGTTGAAGAGTCAAGTGCAGCCCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_015974.3](#)

RefSeq Size: 1516 bp

RefSeq ORF: 960 bp

Locus ID: 51084

UniProt ID: [Q9Y2S2](#)

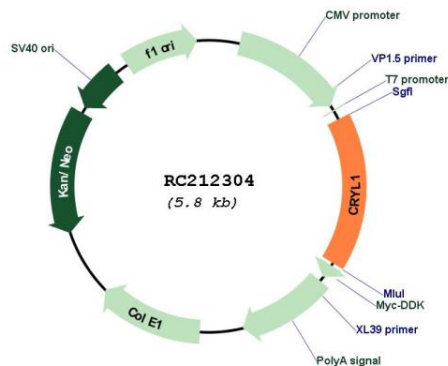
Cytogenetics: 13q12.11

Domains: 3HCDH, 3HCDH_N

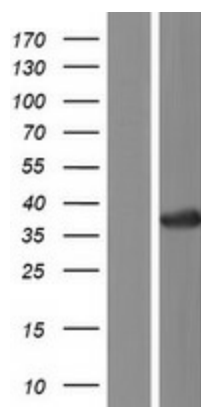
MW: 35.2 kDa

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]

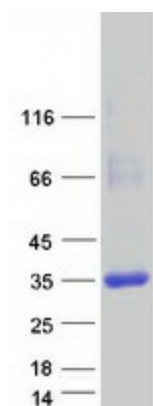
Product images:



Circular map for RC212304



Western blot validation of overexpression lysate (Cat# [LY414265]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212304 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CRYL1 protein (Cat# [TP312304]). The protein was produced from HEK293T cells transfected with CRYL1 cDNA clone (Cat# RC212304) using MegaTran 2.0 (Cat# [TT210002]).