

#### OriGene Technologies, Inc.

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# Product datasheet for TP306759M

### RDHE2 (SDR16C5) (NM\_138969) Human Recombinant Protein

### **Product data:**

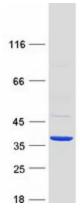
| Product Type:                            | Recombinant Proteins  |
|--|---|
| Description:                             | Recombinant protein of human short chain dehydrogenase/reductase family 16C, member 5<br>(SDR16C5), 100 μg  |
| Species:                                 | Human   |
| Expression Host:                         | HEK293T   |
| Expression cDNA Clone<br>or AA Sequence: | >RC206759 protein sequence<br><mark>Red</mark> =Cloning site Green=Tags(s)  |
|  | MSFNLQSSKKLFIFLGKSLFSLLEAMIFALLPKPRKNVAGEIVLITGAGSGLGRLLALQFARLGSVLVLW<br>DINKEGNEETCKMAREAGATRVHAYTCDCSQKEGVYRVADQVKKEVGDVSILINNAGIVTGKKFLDCPDE<br>LMEKSFDVNFKAHLWTYKAFLPAMIANDHGHLVCISSSAGLSGVNGLADYCASKFAAFGFAESVFVETFV<br>QKQKGIKTTIVCPFFIKTGMFEGCTTGCPSLLPILEPKYAVEKIVEAILQEKMYLYMPKLLYFMMFLKSF<br>LPLKTGLLIADYLGILHAMDGFVDQKKKL |
|  | TRTRPLEQKLISEEDLAANDILDYKDDDDKV   |
| Tag:                                     | C-Myc/DDK   |
| Predicted MW:                            | 33.9 kDa  |
| Concentration:                           | >0.05 μg/μL as determined by microplate BCA method  |
| Purity:                                  | > 80% as determined by SDS-PAGE and Coomassie blue staining   |
| Buffer:                                  | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  |
| Preparation:                             | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.  |
| Note:                                    | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.  |
| Storage:                                 | Store at -80°C.   |
| Stability:                               | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.   |
| RefSeq:                                  | <u>NP 620419</u>  |
| Locus ID:                                | 195814  |



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|                         | RDHE2 (SDR16C5) (NM_138969) Human Recombinant Protein – TP306759M   |
|-------------------------|---|
| UniProt ID:             | <u>Q8N3Y7</u>   |
| RefSeq Size:            | 3039  |
| Cytogenetics:           | 8q12.1  |
| RefSeq ORF:             | 927   |
| Synonyms:               | EPHD-2; RDH#2; RDH-E2; RDHE2; retSDR2   |
| Summary:                | This gene encodes a member of the short-chain alcohol dehydrogenase/reductase<br>superfamily of proteins and is involved in the oxidation of retinol to retinaldehyde. The<br>encoded protein is associated with the endoplasmic reticulum and is predicted to contain<br>three transmembrane helices, suggesting that it is an integral membrane protein. It<br>recognizes all-trans-retinol and all-trans-retinaldehyde as substrates and exhibits a strong<br>preference for NAD(+)/NADH as cofactors. Alternative splicing results in multiple transcript<br>variants. [provided by RefSeq, Dec 2015] |
| <b>Protein Families</b> | : Druggable Genome  |

## **Product images:**



Coomassie blue staining of purified SDR16C5 protein (Cat# [TP306759]). The protein was produced from HEK293T cells transfected with SDR16C5 cDNA clone (Cat# [RC206759]) using MegaTran 2.0 (Cat# [TT210002]).

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