

Product datasheet for **RG207278**

AKR1C1 (NM_001353) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | AKR1C1 (NM_001353) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | AKR1C1 |
| Synonyms: | 2-ALPHA-HSD; 20-ALPHA-HSD; C9; DD1; DD1/DD2; DDH; DDH1; H-37; HAKRC; HBAB; MBAB |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Restriction Sites: | SgfI-MluI |
| Cloning Scheme: | |

Cloning sites used for ORF Shuttling:



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|-----------|-----------|
| ACCN: | NM_001353 |
| ORF Size: | 969 bp |



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| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| 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_001353.5 , NP_001344.2 |
| RefSeq Size: | 1384 bp |
| RefSeq ORF: | 972 bp |
| Locus ID: | 1645 |
| UniProt ID: | Q04828 |
| Cytogenetics: | 10p15.1 |
| Domains: | aldo_ket_red |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Metabolism of xenobiotics by cytochrome P450 |
| Gene Summary: | This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes and ketones to their corresponding alcohols by utilizing NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme catalyzes the reaction of progesterone to the inactive form 20-alpha-hydroxy-progesterone. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. [provided by RefSeq, Jul 2008] |

Product images:



Circular map for RG207278