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| **Gene ontology analysis of Leydig cell-specific or highly enriched transcripts**

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| --- | --- | --- |
| *Molecular function* | *Genes* | *AdjP* |
| **Electron carrier activity** | 8 | 6.02E-05 |
| **Catalitic activity** | 81 | 2.92E-13 |
| **Oxidoreductase activity** | 36 | 6.32E-18 |
| *Oxidoreductase activity, acting on the CH-CH group of donnors* | 6 | 9.79E-05 |
| *Oxidoreductase activity, acting on the aldehyde or oxo group of donnors* | 4 | 2.40E-03 |
| *Oxidoreductase activity, acting on the CH-OH group of donnors* | 9 | 1.60E-05 |
| Oxidoreductase activity, acting on the CH-OH group of donnors, NAD or NADPH as acceptor | 7 | 4.00E-04 |
| *Steroid dehydrogenase activity* | 4 | 8.00E-04 |
| Steroid dehydrogenase activity, acting on the CH-OH group od donnors, NAD or NADPH as acceptor | 4 | 4.00E-04 |
| **Binding** |  |  |
| **Steroid binding**  | 4 | 5.10E-03 |
| **Cofactor binding** | 9 | 5.00E-04 |
| *Coenzyme binding* | 8 | 4.00E-04 |

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| --- | --- | --- |
| *Biological process* | *Genes* | *AdjP* |
| **Regulation of hormone levels** | 8 | 8.00E-04 |
| **Hormone metabolic process** | 7 | 3.00E-04 |
| *Cellular hormone metabolic process* | 7 | 2.93E-05 |
| **Metabolic process** | 86 | 1.20E-05 |
| **Oxidation/Reduction** | 34 | 1.17E-15 |
| **Lipid metabolic process** | 30 | 1.16E-11 |
| *Cellular lipid metabolic process* | 29 | 2.05E-12 |
| Isoprenoid metabolic process | 4 | 5.40E-03 |
| Fatty acid metabolic process  | 11 | 2.85E-05 |
| Steroid metabolic process | 14 | 1.01E-08 |
| Steroid biosynthetic process | 9 | 8.82E-07 |
| Sterol metabolic process | 7 | 2.00E-04 |
| Cholesterol metabolic process | 7 | 8.41E-05 |
| **Alcohol metabolic process** | 11 | 1.90E-03 |
| **Cellular ketone metabolic process** | 19 | 9.30E-07 |
| **Organic acid metabolic process** | 19 | 8.26E-07 |
| *Oxoacid metabolic process* | 19 | 8.26E-07 |
| Carboxylic acid metabolic process | 19 | 8.26E-07 |
| Monocarboxylic acid metabolic process | 15 | 8.26E-07 |

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