

Appendix 2. WT data - *Tyrp1* correlates in enriched biological process categories.

<b>Gene symbol</b>	<b>Gene name</b>	<b>Biological process categories</b>
<i>Apxl</i>	Apical Protein of Xenopus-Like	<ul style="list-style-type: none"> <li>• pigmentation</li> </ul>
<i>Atrn</i>	Attractin	<ul style="list-style-type: none"> <li>• pigmentation</li> </ul>
<i>Cited1</i>	Cbp/p300-interacting transactivator with Glu/Asp-rich carboxy-terminal domain 1	<ul style="list-style-type: none"> <li>• melanocyte differentiation</li> <li>• pigmentation</li> <li>• pigmentation during development</li> <li>• pigment cell differentiation</li> </ul>
<i>Dct</i>	Dopachrome tautomerase	<ul style="list-style-type: none"> <li>• melanin biosynthetic process</li> <li>• melanin metabolic process</li> <li>• pigmentation</li> <li>• pigmentation during development</li> <li>• pigment biosynthetic process</li> <li>• pigment metabolic process</li> <li>• secondary metabolic process</li> </ul>
<i>Edn3</i>	Endothelin 3	<ul style="list-style-type: none"> <li>• melanocyte differentiation</li> <li>• mesenchymal cell development</li> <li>• pigmentation</li> <li>• pigmentation during development</li> <li>• pigment cell differentiation</li> </ul>
<i>Ednrb</i>	Endothelin receptor type B	<ul style="list-style-type: none"> <li>• melanocyte differentiation</li> <li>• mesenchymal cell development</li> <li>• pigmentation</li> <li>• pigmentation during development</li> <li>• pigment cell differentiation</li> </ul>
<i>Hif1a</i>	Hypoxia inducible factor 1	<ul style="list-style-type: none"> <li>• mesenchymal cell development</li> </ul>
<i>Mitf</i>	Microphthalmia-associated transcription factor	<ul style="list-style-type: none"> <li>• melanocyte differentiation</li> <li>• pigmentation</li> <li>• pigmentation during development</li> <li>• pigment cell differentiation</li> </ul>
<i>Myo5a</i>	Myosin VA	<ul style="list-style-type: none"> <li>• melanin biosynthetic process</li> <li>• melanin metabolic process</li> <li>• melanocyte differentiation</li> <li>• pigmentation</li> <li>• pigmentation during development</li> <li>• pigment biosynthetic process</li> <li>• pigment cell differentiation</li> <li>• pigment metabolic process</li> <li>• secondary metabolic process</li> </ul>
<i>Pbef1</i>	Pre-B-cell Enhancing Factor 1	<ul style="list-style-type: none"> <li>• secondary metabolic process</li> </ul>
<i>Rdh10</i>	Retinol dehydrogenase 10	<ul style="list-style-type: none"> <li>• mesenchymal cell development</li> <li>• secondary metabolic process</li> </ul>

<i>Sema3c</i>	Sema domain	<ul style="list-style-type: none"> <li>• mesenchymal cell development</li> </ul>
<i>Si</i>	Silver	<ul style="list-style-type: none"> <li>• melanin biosynthetic process</li> <li>• melanin metabolic process</li> <li>• pigment biosynthetic process</li> <li>• pigment metabolic process</li> <li>• secondary metabolic process</li> </ul>
<i>Slc45a2</i>	Solute carrier family 45	<ul style="list-style-type: none"> <li>• melanin biosynthetic process</li> <li>• melanin metabolic process</li> <li>• pigmentation</li> <li>• pigmentation during development</li> <li>• pigment biosynthetic process</li> <li>• pigment metabolic process</li> <li>• secondary metabolic process</li> </ul>
<i>Tgfb3</i>	Transforming growth factor	<ul style="list-style-type: none"> <li>• mesenchymal cell development</li> </ul>
<i>Tyr</i>	Tyrosinase	<ul style="list-style-type: none"> <li>• melanin biosynthetic process</li> <li>• melanin metabolic process</li> <li>• pigmentation</li> <li>• pigment biosynthetic process</li> <li>• pigment metabolic process</li> <li>• secondary metabolic process</li> </ul>
<i>Tyrp1</i>	Tyrosinase-related protein 1	<ul style="list-style-type: none"> <li>• melanin biosynthetic process</li> <li>• melanin metabolic process</li> <li>• melanocyte differentiation</li> <li>• pigmentation</li> <li>• pigmentation during development</li> <li>• pigment biosynthetic process</li> <li>• pigment cell differentiation</li> <li>• pigment metabolic process</li> <li>• secondary metabolic process</li> </ul>