

Table S17
Classifications by Gene Ontology of the genes presented in Table 1

Gene	Biological process	Molecular function	Cellular component
<i>SILV</i>	Melanin biosynthetic process from tyrosine	Not available	Extracellular region
<i>DHRS2</i>	Oxidation reduction	Binding	Nucleus
<i>SOX10</i>	Regulation of transcription, DNA-dependent	DNA binding	Nucleus
<i>TRAF7</i>	Activation of MAPKKK activity	Ubiquitin-protein ligase activity	Ubiquitin ligase complex
<i>C10orf2</i>	Not available	Not available	Not available
<i>PRPS1</i>	Nucleoside metabolic process	Magnesium ion binding	Cytosol
<i>MLANA</i>	Not available	Not available	Integral to plasma membrane
<i>AIPL1</i>	Retina homeostasis	Farnesylated protein binding	Photoreceptor inner segment
<i>MAGEA6</i>	Not available	Not available	Not available
<i>KLHL21</i>	Ubiquitin-dependent protein catabolic process	Protein binding	Not available
<i>GNB3</i>	Signal transduction	GTPase activity	Nucleus
<i>KIFC1</i>	Mitotic sister chromatid segregation	Nucleotide binding	Nucleus
<i>SI00B</i>	Axonogenesis	Calcium ion binding	Ruffle
<i>CDT1</i>	DNA replication checkpoint	DNA binding	Nucleus
<i>ZWINT</i>	Mitotic sister chromatid segregation	Protein N-terminus binding	Condensed chromosome kinetochore
<i>XAB2</i>	Blastocyst development	Protein binding	Intracellular
<i>SLC45A2</i>	Melanin biosynthetic process from tyrosine	Not available	Membrane