Top differentially expressed colour coding genes in chanthangi pashmina goat.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Gene | Sample 1 | Sample 2 | FPKM Sample1 | FPKM Sample2 | Log2FC | P-Value | Annotation |
| ASIP | black | white | 0.88209 | 177.097 | 7.64938 | 0.0149 | agouti signaling protein |
| black | brown | 0.88209 | 114.233 | 7.01682 | 0.0149 |
| PMEL | white | brown | 3.77351 | 22.4587 | 2.5733 | 0.00115 | premelanosome protein |
| black | white | 30.8623 | 3.77351 | -3.03187 | 0.0004 |
| KIT | black | white | 3.331 | 10.9571 | 1.71784 | 0.00005 | KIT proto-oncogene receptor tyrosine kinase |
| black | brown | 3.331 | 8.02111 | 1.26785 | 0.00035 |
| KITLG | black | white | 4.04987 | 10.2752 | 1.34322 | 0.0002 | KIT ligand |
| black | brown | 4.04987 | 9.99253 | 1.30297 | 0.0006 |
| DCT | white | brown | 1.04773 | 5.59719 | 2.41744 | 0.00015 | dopachrome tautomerase |
| black | brown | 2.50077 | 5.59719 | 1.16233 | 0.0088 |
| black | white | 2.50077 | 1.04773 | -1.25511 | 0.01855 |
| MITF | black | white | 3.8986 | 8.83061 | 1.17956 | 0.00055 | melanogenesis associated transcription factor |
| black | brown | 3.8986 | 7.10542 | 0.86596 | 0.0093 |
| WNT3A | black | brown | 1.41965 | 4.92151 | 1.79356 | 0.00425 | Wnt family member 3 |
| black | white | 1.41965 | 3.4234 | 1.26989 | 0.0366 |
| EDA | black | white | 0.47641 | 1.02386 | 1.10374 | 0.03845 | ectodysplasin A |
| white | brown | 1.02386 | 0.45308 | -1.17618 | 0.03105 |
| EDNRB | black | brown | 3.47453 | 7.87339 | 1.18017 | 0.002 | endothelin receptor type B |
| black | white | 3.47453 | 6.94379 | 0.99890 | 0.00905 |
| FOXN1 | black | white | 14.7482 | 47.911 | 1.69982 | 0.00005 | forkhead box N1 |
| white | brown | 47.911 | 21.6778 | -1.14414 | 0.0007 |
| GNAQ | black | white | 1.97199 | 5.13064 | 1.37949 | 0.0006 | Guanine nucleotide-binding protein G(q) subunit alpha |
| black | brown | 1.97199 | 4.58211 | 1.21636 | 0.0019 |
| IRF4 | black | white | 0.56497 | 2.02647 | 1.8427 | 0.00375 | interferon regulatory factor 4 |
| white | brown | 2.02647 | 0.91383 | -1.14896 | 0.042 |
| LEF1 | black | white | 9.3635 | 20.0949 | 1.10171 | 0.0036 | lymphoid enhancer binding factor 1 |
| LYST | black | white | 3.2049 | 6.87228 | 1.10051 | 0.00025 | lysosomal trafficking regulator |
| NGF | white | brown | 1.02872 | 2.64157 | 1.36054 | 0.0333 | nerve growth factor |
| ATP7A | black | white | 2.66078 | 5.94043 | 1.15872 | 0.0008 | ATPase copper transporting alpha |
| BNC2 | black | white | 2.79454 | 6.64159 | 1.24892 | 0.00015 | basonuclin 2 |
| BRAF | black | white | 7.597 | 16.1445 | 1.08754 | 0.00125 | B-Raf proto-oncogene, serine/threonine kinase |
| CORIN | black | white | 0.590072 | 1.27683 | 1.11361 | 0.027 | corin, serine peptidase |
| DKK1 | black | white | 0.933136 | 2.58206 | 1.46837 | 0.01675 | dickkopf WNT signaling pathway inhibitor 1 |
| EGFR | black | white | 13.0682 | 25.7886 | 0.980678 | 0.0019 | epidermal growth factor receptor(EGFR) |
| SLC11A1 | black | white | 1.22411 | 0.30819 | -1.98985 | 0.01245 | Iron transporter |
| SLC12A2 | black | white | 5.1736 | 11.0195 | 1.09082 | 0.00045 | Sodium/Potassium/Chloride Transporter |
| SLC16A14 | black | brown | 0.624373 | 1.42355 | 1.18901 | 0.02775 | Monocarboxylic Acid transporter |
| black | white | 0.624373 | 1.71295 | 1.456 | 0.00765 |
| SLC17A9 | black | white | 5.12121 | 1.80988 | -1.50059 | 0.0012 | Vesicular Nucleotide Transporter |
| white | brown | 1.80988 | 3.95938 | 1.12938 | 0.01675 |
| SLC38A3 | white | brown | 2.48888 | 1.21195 | -1.03816 | 0.0254 | Na(+)-Coupled Neutral Amino Acid Transporter 3 |
| black | white | 1.17185 | 2.48888 | 1.08671 | 0.01565 |
| SLC4A4 | white | brown | 2.23508 | 1.10923 | -1.01077 | 0.01165 | Sodium Bicarbonate Cotransporter |
| black | brown | 0.439246 | 1.10923 | 1.33645 | 0.0045 |
| black | white | 0.439246 | 2.23508 | 2.34722 | 0.00005 |
| SLC7A11 | white | brown | 1.19689 | 0.342195 | -1.8064 | 0.0124 | Cystine/Glutamate Transporter |
| black | white | 0.103648 | 1.19689 | 3.52953 | 0.0131 |
| TCF4 | black | brown | 7.70404 | 15.2821 | 0.988151 | 0.00235 | Immunoglobulin Transcription Factor 2 |
| black | white | 7.70404 | 15.9684 | 1.05153 | 0.0012 |
| TYR | black | white | 1.98074 | 0.704096 | -1.4922 | 0.01935 | Tyrosinase enzyme |
| white | brown | 0.704096 | 2.47771 | 1.81517 | 0.00545 |
| TYRP1 | black | white | 9.78607 | 0.119824 | -6.35175 | 0.02575 | Tyrosinase Related Protein 1 |
| white | brown | 0.119824 | 9.72213 | 6.34229 | 0.0255 |
| PRKCB | black | white | 0.530682 | 1.27202 | 1.26121 | 0.0175 | Protein Kinase C Beta |
| black | white | 1.31249 | 2.72976 | 1.05646 | 0.0068 |
| CALR | black | white | 629.946 | 347.842 | -0.856797 | 0.03805 | Endoplasmic Reticulum Resident Protein 60 |
| white | brown | 347.842 | 605.862 | 0.800558 | 0.0484 |
| SEPT | black | white | 9.0687 | 18.3496 | 1.01678 | 0.00125 | Septin-11 |
| black | brown | 9.0687 | 14.7001 | 0.696859 | 0.02325 |
| STIM1 | black | white | 14.0666 | 24.7633 | 0.815926 | 0.0078 | Stromal Interaction Molecule 1 |
| black | white | 2.57118 | 5.73746 | 1.15798 | 0.00315 |
| STIM2 | black | brown | 2.57118 | 5.16503 | 1.00635 | 0.00995 | Stromal Interaction Molecule 2 |
| TRPC1 | black | white | 1.03943 | 2.07962 | 1.00053 | 0.0451 | Transient Receptor Potential Cation Channel Subfamily C Member 1 |