RNA Sequencing: Gene Info

DMRT1: Located on chromosome 9, this gene is involved in male sex determination and development. This gene is expressed specifically in the testis.

GHRL: Located on chromosome 3, this gene codes for the hormones ghrelin and obestation, which are both involved in hunger signalling. This gene is expressed specifically in the stomach.

ALB: Located on chromosome 4, this gene codes for the Human serum albumin protein. Serum albumin is produced in the liver and is involved in controlling the amount of water in the blood stream, and transporting hormones and other molecules.

ATP5A1: Located on chromosome 18, this gene codes for an enzyme involved in ATP synthesis. Because this gene is critical to generating energy it is expressed everywhere. However, this gene has particularly high expression in tissues that require a lot of energy.

DMD: Located on the X chromosome, this gene codes for the Dystrophin protein, which is involved in muscle function. Mutations in this gene cause Duchenne Muscular Dystrophy. In females, one of the two copies of the DMD gene is turned off (X-inactivation). Males only have one copy of the DMD gene. This means this gene shows similar levels of expression between females and males.

ZFX: Located on the X chromosome, the exact function of this gene is not currently known. In females, both copies of this gene are active (it escapes X-inactivation). Males only have a single copy of this gene. This means this gene has higher expression levels in females than in males.

ZFY: Located on the Y chromosome, this gene is related to the ZFX gene. This means this gene is only expressed in males.