Zucker Diabetic Sprague Dawley (ZDSD) Rats
STRAIN CODE: 696

**Nomenclature** ZDSD/PcoCrl

**Origin** This colony was started by crossing ZDF/GMI rats with Crl:CD rats in 2001 at PreClinOmics, under the direction of Dr. Richard Peterson. The colony was perpetuated by inbreeding selected obese animals from litters that had a tendency for developing diabetes. Selected animals from the colony were rederived in 2009 at 21 generations. The selective inbreeding was continued for a total of 45 generations in this colony until 2016 under the direction of Dr. Peterson when Crown Bioscience purchased PreClinOmics. They continued the inbreeding of this colony until generation 57 (2018) in the PreClinOmics breeding facilities. To Charles River in 2018.

**Coat Color** Black-hooded with black stripe down the length of the back

**Research Application** Type 2 diabetes, pre-diabetes, obesity, metabolic syndrome (insulin resistance, dyslipidemia, and hypertension), diabetic complications (nephropathy, neuropathy, fatty liver)

**Note** The female ZDSD does not develop diabetes. Limited inventory is available and pricing can be supplied upon request. Some for-profit entities will require a license from CrownBio to purchase this model. To find out if you need to obtain a license, please contact us at TAD@crl.com.