Experiment		Knockdown of <i>Drosophila</i> homologs of 16p12.1 genes				
Phenotype	Assay	UQCR-C2	Cen	Sin	CG14182	
Adult eye morphology	Eye phenotype (overexpression of <i>Dicer2</i> )	Normal	Normal	Rough eye	Rough eye	
	Eye phenotype (no overexpression of <i>Dicer2</i> )	Normal	Normal	Moderate rough eye	Normal	
Role in development	Ubiquitous knockdown	Larval lethal	Normal	Larval lethal	Normal	
	Wing development	Lethal	Normal	Severe phenotype	Normal	
Neuronal phenotypes	Lifespan	Increased	Normal	Reduced	Reduced	
	Developmental timing	Normal	Normal	Delayed / larval lethality	Partial larval lethality	
	Seizure susceptibility	Increased	Normal	Normal	Normal	
	Complexity of dendritic arbors	Normal	Normal	Normal	Reduced	
	Brain size	Normal	Normal	Reduced	Reduced	
Cellular proliferation (developing brain)	pH3 staining	NA	NA	Reduced	Reduced	
Apoptosis (developing brain)	Dcp-1 staining	NA	NA	Reduced	Normal	
RNA sequencing (adult heads)	Differential gene expression (fly homologs)	Protein folding, heat shock	Protein folding, heat shock protein, muscle contraction	Cell adhesion, respiratory system development	No clear relevant functional enrichment	
	Differential gene expression (human homologs)	Protein folding	Proteolysis	Muscle contraction, nervous system development, system/organ development	Synapse assembly and transmission, histone methyltransferase function, small nucleolar ribonuclear complex	

Ex	xperiment	Knockdown of X. laevis homologs of 16p12.1 genes				
Phenotype	Assay	uqcrc2	cdr2	polr3e	mosmo	
Craniofacial features	Face width	Normal	Decreased	Decreased	Decreased	
	Face height	Normal	Increased	Normal	Increased	
	Orofacial area	Normal	Normal	Decreased	Decreased	
	Eye area	Normal	Decreased	Decreased	Decreased	
	Face angle	Normal	Decreased	Decreased	Decreased	
Brain phenotypes	Forebrain size (partial KD)	Normal	Normal	Normal	Reduced	
	Midbrain size (partial KD)	Normal	Normal	Normal	Reduced	
	Forebrain size (stronger KD)	Normal	Lethal	Reduced	Reduced	
	Midbrain size (stronger KD)	Normal	Lethal	Reduced	Reduced	
Axon outgrowth Cellular proliferation (developing embryo)	Axon length (stronger KD) pH3 staining - western blot	Normal NA	Lethal NA	Normal Reduced	Decreased Normal	