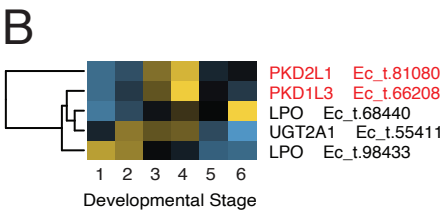
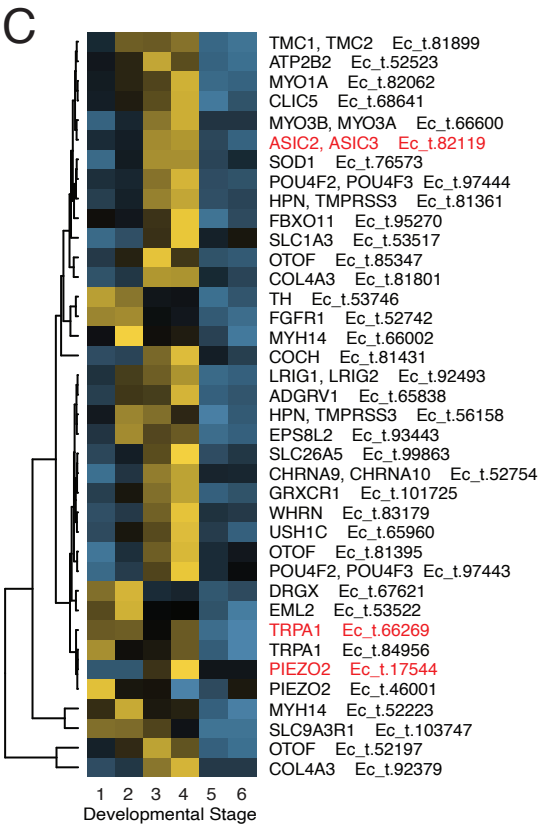


Plays an important role in retinal vascular development.
Regulates photoreceptor cell-specific gene transcription early in development
May act as positive axonal guidance cues
Transcriptional factor that is an activator of rod development
Tubulin binding protein that inhibits microtubule nucleation and growth
May act as positive axonal guidance cues
Involved in nuclear processing of SSU 18S rRNA
GPCR with essential role in the development of hearing and vision
Involved in hearing and vision as member of the USH2 complex
Scaffolding protein in the functional network that mediates mechanotransduction
Involved in auditory system development, required for terminal differentiation of hair cells in the inner ear
Transcription Factor
Synthesizes cGMP in rods and cones of photoreceptors, plays an essential role in phototransduction
May play a role in the development of the retina
Probable metal transporter, may play a role in biomineralization and retinal function
Involved in auditory system development, required for terminal differentiation of hair cells in the inner ear
Plays an important role in early steps of cochlear hair bundle morphogenesis and probably plays a role in vision
May be involved in determining the polarity of photoreceptor and other cells in the retina
Rhodopsin, photoreceptor required for vision at low light intensity; peropsin, melanopsin, neuropsin
Rhodopsin, photoreceptor required for vision at low light intensity; peropsin, melanopsin, neuropsin
Rhodopsin, photoreceptor required for vision at low light intensity; peropsin, melanopsin, neuropsin
Thought to mediate the attachment, migration and organization of cells into tissues during embryonic development
Thought to mediate the attachment, migration and organization of cells into tissues during embryonic development
Positively regulates the regression of retinal hyaloid vessels during postnatal development
Plays an important role in photoreceptor integrity



Pore-forming subunit of a heteromeric channel that is activated by low pH
May act as a sour taste receptor with PKD2L1
Antimicrobial agent
An enzyme that shows a high affinity to aliphatic odorants, may be involved in olfaction
Antimicrobial agent



Probable ion channel required for the normal function of cochlear hair cells
Dissipates Ca²⁺ transients from the opening of mechanoelectrical transduction channels.
An unconventional myosin, involved in directing the movement of organelles along actin filaments
Necessary for the formation of stereocilia in the inner ear and plays a role in formation of the lens in the eye
Plays an important role in early steps of cochlear hair bundle morphogenesis and probably plays a role in vision
Cation channel, may play a role in mechanoreception. Potentiated by FMRFamide-related neuropeptides
Destroys toxic radicals normally produced within cells
Plays a fundamental role in retinal ganglion cell differentiation and required for terminal differentiation of hair cells
Plays a role in cell growth and maintenance of cell morphology
Involved in the pathway protein ubiquitination
Involved in rapid removal of glutamate from the synaptic cleft and mediates uptake of L-glutamate
Key calcium ion sensor, involved in triggering exocytosis of neurotransmitters at ribbon synapses of inner hair cells
Major structural component of glomerular basement membranes
Positively regulates the regression of retinal hyaloid vessels during postnatal development
Plays an essential role in the regulation of embryonic development, cell proliferation, differentiation and migration.
Cellular myosin that appears to play a role in cytokinesis, cell shape
Plays a role in the control of cell shape and motility in the trabecular meshwork
Acts as a feedback negative regulator of signaling by receptor tyrosine kinases
GPCR with essential role in the development of hearing and vision
Plays a role in cell growth and maintenance of cell morphology
In the cochlea, is required for stereocilia maintenance in adult hair cells
Motor protein that converts auditory stimuli to length changes in outer hair cells
Ionotropic receptor with a probable role in the modulation of auditory stimuli.
May play a role in actin filament architecture in developing stereocilia of sensory cells
Involved in hearing and vision as member of the USH2 complex
Scaffolding protein in the functional network that mediates mechanotransduction
Key calcium ion sensor, involved in triggering exocytosis of neurotransmitters at ribbon synapses of inner hair cells
Plays a fundamental role in retinal ganglion cell differentiation and required for differentiation of hair cells
Required for the formation of correct projections from nociceptive sensory neurons and normal perception of pain
Tubulin binding protein that inhibits microtubule nucleation and growth
Receptor-activated non-selective cation channel, may be involved in signal transduction, member of TRP superfamily
Receptor-activated non-selective cation channel, may be involved in signal transduction, member of TRP superfamily
Component of mechanosensitive channel, plays major role in light-touch mechanosensation
Component of mechanosensitive channel, plays major role in light-touch mechanosensation
Cellular myosin that appears to play a role in cytokinesis, cell shape
Scaffold protein, necessary for cAMP-mediated phosphorylation
Key calcium ion sensor, involved in triggering exocytosis of neurotransmitters at ribbon synapses of inner hair cells
Major structural component of glomerular basement membranes

