



1. Zebrafish *lhfp15b* is expressed exclusively in neuromast hair cells of the lateral line.
2. The *lhfp15b* mutants exhibit behaviors that result in swim bladder over-inflation in 45% ($\pm 5\%$) of mutant fish.
3. GFP-Lhfp15a can rescue the *lhfp15b* mutant phenotypes, revealing that lateral line defects in mutants are responsible for the behaviors that lead to swim bladder over-inflation.
4. When the lateral line of wild type fish was ablated using ototoxic treatments, the rate of swim bladder over-inflation mirrored the rates observed in lateral line mutants.
5. Blocking fish access to the air-water interface prevents swim bladder inflation in *lhfp15b* mutants.
6. Mutant fish tend to swim at the top of the tank more often than wild type siblings at 4-5 dpf.
7. Other sensory systems, such as phototaxis, help with fish sensing the air-water interface and achieving neutral buoyancy.