BACKGROUND
The Brn family of transcription factors are found in a highly restricted subset of neurons and are critical to the early embryonic development of the central nervous system. POU3F4 (POU domain, class 3, transcription factor 4), also known as OTF9, DFN3, DFNX2, BRAIN-4 or Brn-4, is a 361 amino acid class III POU domain protein that belongs to the Brn family. Localized to the nucleus, POU3F4 contains one POU-specific domain and one homeobox DNA-binding domain through which it is thought to function as a brain-specific transcription factor that affects neuronal development. Defects in the gene encoding POU3F4 are associated with X-linked deafness type 3 (DFN3), a disorder characterized by both progressive sensorineural deafness and conductive hearing loss caused by stapes gushers (large vestibular aqueducts).

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: POU3F4 (human) mapping to Xq21.1; Pou3f4 (mouse) mapping to X E1.

SOURCE
POU3F4 (G-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of POU3F4 of human origin.