

KRT75L4 (https://www.gephebase.org/search-criteria?/and+GeneGephebase=~KRT75L4^#gephebase-summary-title)	Gephebase Gene	GP00002334	GepheID
Published	Entry Status	Martin	Main curator

Morphology (https://www.gephebase.org/search-criteria?/and+Trait+Category=~Morphology~#gephebase-summary-title)		Trait Category	
Feathers (https://www.gephebase.org/search-criteria?/and+Trait=~Feathers~#gephebase-summary-title)		Trait	
Gallus gallus		Trait State in Taxon A	
Gallus gallus - Frizzle Feather in Qilin chicken breed		Trait State in Taxon B	
Taxon A		Ancestral State	
Domesticated (https://www.gephebase.org/search-criteria?/and+Taxonomic+Status=~Domesticated~#gephebase-summary-title)		Taxonomic Status	
Taxon A		Taxon B	
Gallus gallus (https://www.gephebase.org/search-criteria?/and+Taxon+and+Synonyms=~Gallus+gallus~#gephebase-summary-title)	Latin Name	Gallus gallus (https://www.gephebase.org/search-criteria?/and+Taxon+and+Synonyms=~Gallus+gallus~#gephebase-summary-title)	Latin Name
chicken	Common Name	chicken	Common Name
Gallus gallus domesticus; chicken; bantam; chickens	Synonyms	Gallus gallus domesticus; chicken; bantam; chickens	Synonyms
species	Rank	species	Rank
cellular organisms; Eukaryota; Opisthokonta; Metazoa; Eumetazoa; Bilateria; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Dipnotetrapodomorpha; Tetrapoda; Amniota; Sauropsida; Sauria; Archelosauria; Archosauria; Dinosauria; Saurischia; Theropoda; Coelurosauria; Aves; Neognathae; Galloanserae; Galliformes; Phasianidae; Phasianinae; Gallus	Lineage	cellular organisms; Eukaryota; Opisthokonta; Metazoa; Eumetazoa; Bilateria; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Dipnotetrapodomorpha; Tetrapoda; Amniota; Sauropsida; Sauria; Archelosauria; Archosauria; Dinosauria; Saurischia; Theropoda; Coelurosauria; Aves; Neognathae; Galloanserae; Galliformes; Phasianidae; Phasianinae; Gallus	Lineage
Gallus () - (Rank: genus) (https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=9030)	Parent	Gallus () - (Rank: genus) (https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=9030)	Parent
9031 (https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=9031)	NCBI Taxonomy ID	9031 (https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=9031)	NCBI Taxonomy ID
No	is Taxon A an Intraspecies?	Yes	is Taxon B an Intraspecies?
			Taxon B Description
		Gallus gallus - Frizzle Feather	

KRT75L4	Generic Gene Name	UniProtKB Gallus gallus
-	Synonyms	A0A1L1RKR4 (http://www.uniprot.org/uniprot/A0A1L1RKR4)
-	String	GenebankID or UniProtKB AEX59147.1 (https://www.ncbi.nlm.nih.gov/nucore/AEX59147.1)
-	Sequence Similarities	
Belongs to the intermediate filament family.		
-	GO - Molecular Function	
-	GO - Biological Process	
-	GO - Cellular Component	
GO:0045095 : keratin filament (https://www.ebi.ac.uk/QuickGO/term/GO:0045095)		
		Presumptive Null

No (https://www.gephebase.org/search-criteria?/and+Presumptive Null=~No~#gephebase-summary-title)	Molecular Type
Coding (https://www.gephebase.org/search-criteria?/and+Molecular Type=~Coding~#gephebase-summary-title)	Aberration Type
Deletion (https://www.gephebase.org/search-criteria?/and+Aberration Type=~Deletion~#gephebase-summary-title)	Deletion Size
10-99 bp	Molecular Details of the Mutation
15bp deletion resulting in loss of 5 conserved amino-acids	Experimental Evidence
Association Mapping (https://www.gephebase.org/search-criteria?/and+Experimental Evidence=~Association Mapping~#gephebase-summary-title)	Main Reference
A parallel mechanism underlying frizzle in domestic chickens. (2018) (https://pubmed.ncbi.nlm.nih.gov/29868726)	Authors
Guo X; Li YQ; Wang MS; Wang ZB; Zhang Q; Shao Y; Jiang RS; Wang S; Ma CD; Murphy RW; Wang GQ; Dong J; Zhang L; Wu DD; Du BW; Peng MS; Zhang YP	Abstract
-	Additional References

RELATED GEPHE

14 (ABCA1, CDKN2A, CYP19A1, Endothelin receptor B2, MC1R, PMEL17, SLC45A2=MATP, SOX10, tyrosinase (TYR), tyrosinase-related protein 1 (TYRP1), FGF20, GDF7, HOXC8 - uncertain, KRT6A) (https://www.gephebase.org/search-criteria?/or+Taxon ID=~9031~/and+Trait=Feathers/and+groupHaplotypes=true#gephebase-summary-title)	Related Genes
No matches found.	Related Haplotypes

EXTERNAL LINKS

COMMENTS

@Parallelism with in-frame deletion in two distinct keratin genes