

Supplementary Table S3: The most significant pathway enriched by genes harboured the nonsense mutation by Reactome tool in a) F1 b) F2 c) F5 d) F8 e) F12 f) F18 g) F19

a)	Pathway name	Entities				Reactions	
		found	ratio	p-value	FDR*	found	ratio
	Olfactory Signaling Pathway	12 / 432	0.031	6.13e-06	0.001	1 / 2	1.72e-04
b)	Pathway name	Entities				Reactions	
		found	ratio	p-value	FDR*	found	ratio
	Olfactory Signaling Pathway	12 / 432	0.031	1.20e-06	1.91e-04	1 / 2	1.72e-04
c)	Pathway name	Entities				Reactions	
		found	ratio	p-value	FDR*	found	ratio
	Olfactory Signaling Pathway	10 / 432	0.031	1.74e-04	0.042	1 / 2	1.72e-04
d)	Pathway name	Entities				Reactions	
		found	ratio	p-value	FDR*	found	ratio
	Olfactory Signaling Pathway	9 / 432	0.031	3.59e-04	0.057	1 / 2	1.72e-04
e)	Pathway name	Entities				Reactions	
		found	ratio	p-value	FDR*	found	ratio
	Olfactory Signaling Pathway	11 / 432	0.031	2.68e-05	0.006	1 / 2	1.72e-04
f)	Pathway name	Entities				Reactions	
		found	ratio	p-value	FDR*	found	ratio
	Olfactory Signaling Pathway	10 / 432	0.031	6.98e-05	0.011	1 / 2	1.72e-04
g)	Pathway name	Entities				Reactions	
		found	ratio	p-value	FDR*	found	ratio
	Olfactory Signaling Pathway	10 / 432	0.031	7.37e-05	0.011	1 / 2	1.70e-04

*False discovery rate (FDR)≤0.05; p-value<0.05