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Phenotype variability and allelic heterogeneity in KMT2B-Associated disease

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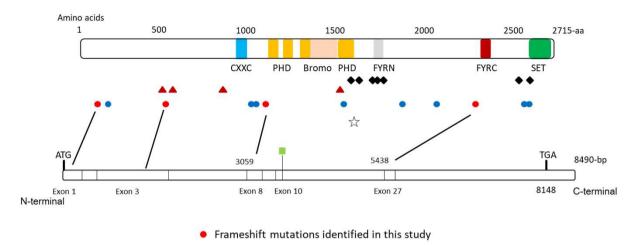
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ACCEPTED MANUSCRIPT





Four novel frameshift mutations in *KMT2B* identified in dystonia patients

Clinical features of KMT2B-associated disease

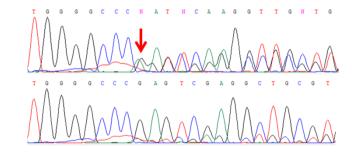
Dysphonia / Dysarthrophonia

Generalized dystonia

Microcephaly
Mild intellectual disability

Myoclonic /
Choreic movements

Hypotonia (cerebellar dysfunction)



Haploinsufficiency via Nonsense-mediated mRNA decay



Excellent or partial response to GPi-DBS

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