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NEWS RELEASE

6 10 18



Vap33 MSP

Vap33  
MSP

Vap33 MSP Mmp1/2  
MSP

VAPB Vap33 (ALS8)  
ALS MSP  
MSP ALS

2, 3 Vap33 VAPB

Vap33 MSP Vap33

VAPB (ALS8) ALS

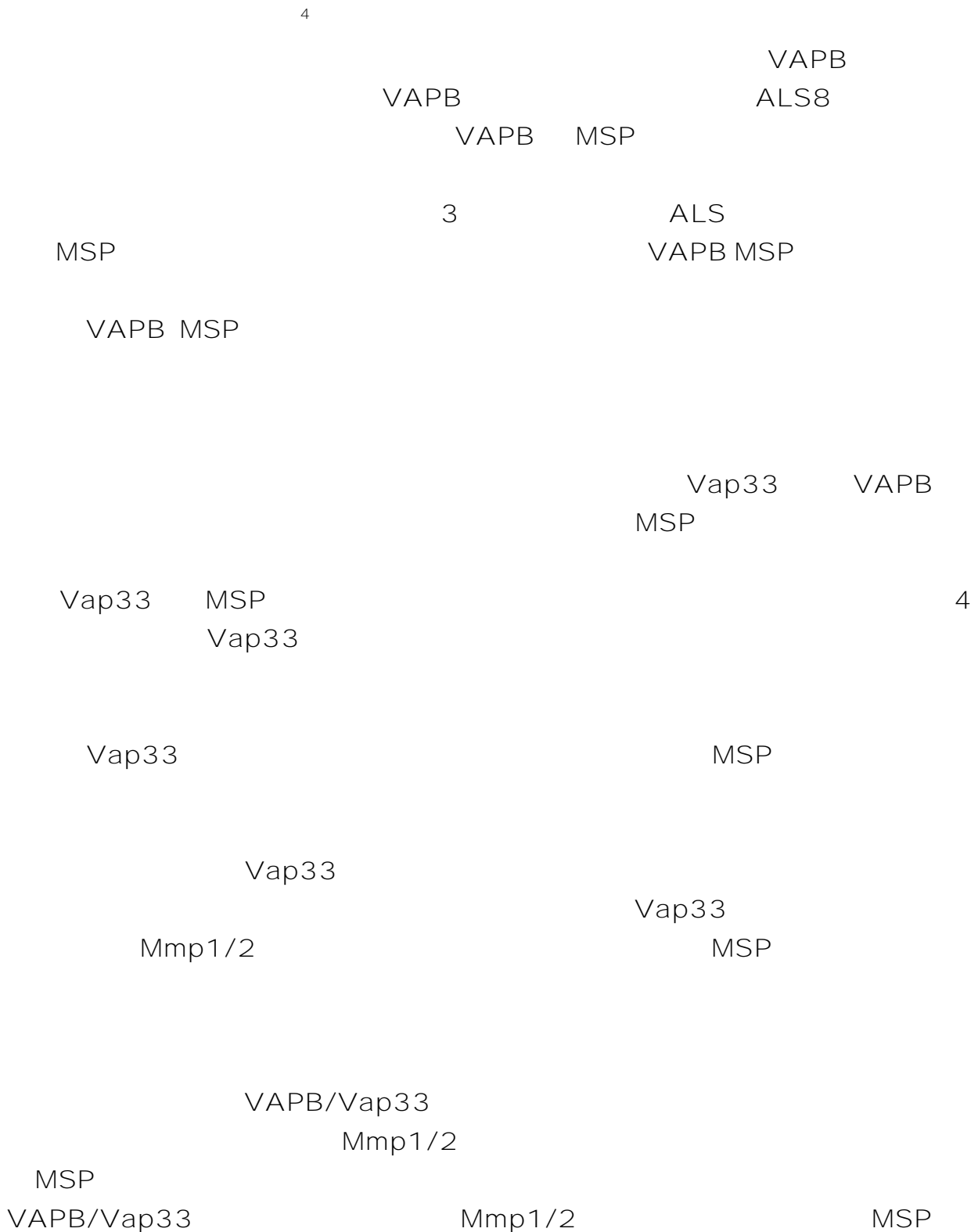
MSP  
VAPB MSP  
ALS

Secretion of endoplasmic reticulum protein VAPB/ALS8 requires topological inversion

Kosuke Kamemura, Rio Kozono, Mizuki Tando, Misako Okumura, Daisuke Koga, Satoshi Kusumi, Kanako Tamai, Aoi Okumura, Sayaka Sekine, Daichi Kamiyama & Takahiro Chihara

DOI <https://doi.org/10.1038/s41467-024-53097-5>

2024 Oct 10



ALS

1 (ALS)

2

3

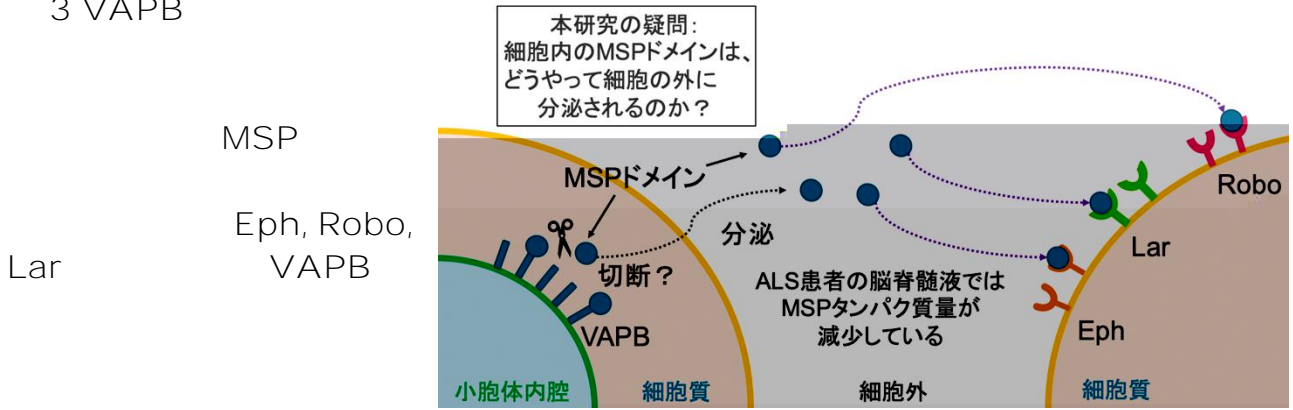
4 :

5 ( )

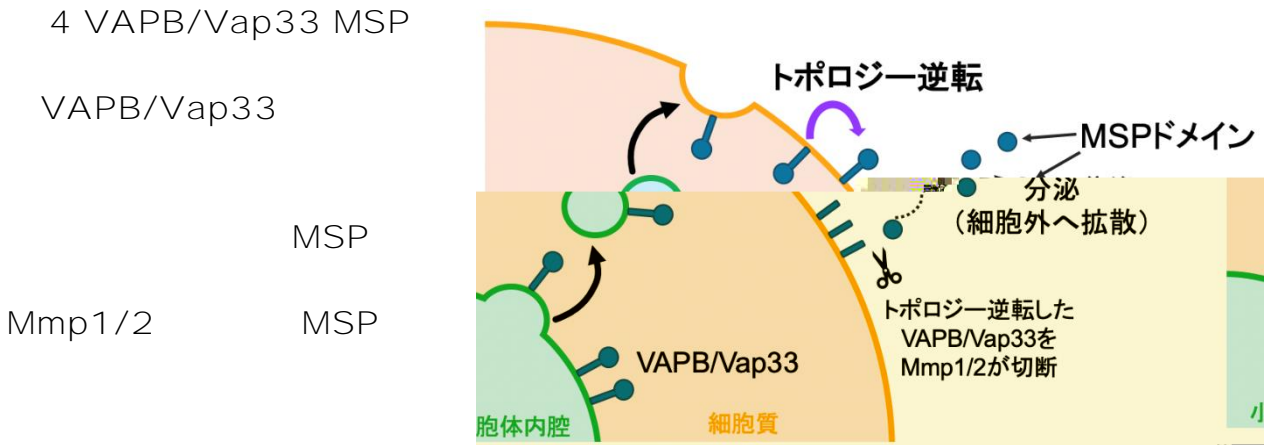
1

N C

3 VAPB



4 VAPB/Vap33 MSP



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