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Function and expression of a splicing variant of vesicular glutamate transporter 1

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Highlights

- VGLUT1v is a splicing variant of VGLUT1
- VGLUT1v is present in photoreceptor cells and pinealocyte.
- VGLUT1v is associated with synaptic vesicles in the photoreceptor cells.
- VGLUT1v protein acts as a vesicular glutamate transporter.

Keywords: vesicular glutamate transporter, VGLUT1, splicing variant, photoreceptor cell, synaptic vesicle, pinealocyte

Abbreviations: DIDS, diisothiocyanatostilbene disulfonic acid; $\Delta\psi$, membrane potential; VGAT, vesicular GABA transporter; VGLUT, vesicular glutamate transporter; VGLUT1v, vesicular glutamate transporter 1 variant; GCL, ganglion cell layer; IPL, inner plexiform layer; INL, inner nuclear layer; OPL, outer plexiform layer.

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