

GEVI Sensor Comparison

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Measurement in non-neuronal cell culture unless otherwise stated.

Name	τ_{fast} (ms)	% τ_{fast}	τ_{slow} (ms)	$\% \Delta F / F /$ 10mV	λ_{ex} (nm)	Mouse	Drosophila	Zebrafish	Source Notes
Jarvis	N/A			2.9	470/940	3		X	(Grimm et al., 2024)
pAce	0.5	82	1.5	3.1	505/940	X	X		(Grimm et al., 2024; Kannan et al., 2022)
pAceR	2.4	54	5.4	2.8	565	X	X		(Kannan et al., 2022)
Jedi-2P	0.5	88c	7.8c	-4.8	501/940	X			(Liu et al., 2022)
Jedi-1P	0.53	89c	10.3c	-5.4	470	5			(Liu et al., 2023)
ASAP6b	3.7	100		16	470/960	X			(Lee et al., 2024)
ASAP6.14.0		100		20	470/960	X			(Lee et al., 2024)

Name	τ_{fast} (ms)	% τ_{fast}	τ_{slow} (ms)	$\% \Delta F / F /$ 10mV	λ_{ex} (nm)	Mouse	Drosophila	Zebrafish	Source Notes
Voltron20.7			3.3	-3.5	525f/1135	X	X	X	(Abdelfattah et al., 2023; Brooks et al., 2024)
Positron				1.8	525f			X	(Abdelfattah et al., 2020)
Positron2				3.7				X	(Schreiner et al., 2023; Wang et al., 2023)
QuasAr6h8		90	6.3	7.3g	635	X			(Tian et al., 2023)
QuasAr6b8		87	6.6	2.4c	635	X			(Tian et al., 2023)
Archon1.61		88	8.1	4.3h	637	X		X	(Piatkevich et al., 2019, 2018)

Footnotes

- **b**: Half rise time: 1.9 ms
- **c**: Organotypic slices
- **d**: At 32 C - 35 C
- **e**: Only widefield w/o single cell resolution reported
- **f**: With dye JF525, other dyes possible
- **g**: In cultured neurons: 4.7% / 10 mV

- **h:** In cultured neurons

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