CORRECTION

Correction: Visualization of Glutamine Transporter Activities in Living Cells Using Genetically Encoded Glutamine Sensors

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The seventh sentence of the first paragraph under the subheading “Affinity and Substrate Specificities of FLIPQ-TV3.0 Sensors” of the Results and Discussion section is incorrect. The correct sentence is: The resulting clones, FLIPQ-TV3.0_R75K, R75M, D157N, R75MW220A, and R75MY86A had *K_d* of 1.5×10^{-6} M, 5.3×10^{-5} M, 1.3×10^{-4} M, and 1.6×10^{-3} M, and 7.6×10^{-3} M, respectively ([Fig 4A](#), [Table 1](#)).

In [Table 1](#), the fifth and six row labels under the column heading Mutations in glnH are swapped. Please see the corrected [Table 1](#) here.

In [Fig 4A](#), the in-figure legends for R75MW220A and R75AY86A are swapped. Please view the correct [Fig 4](#) here.

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Fig 4. Affinities and substrate specificities of FLIPQ-TV3.0 sensors. (A) Saturation curves of FLIPQ-TV3.0 sensors with altered affinities. (B) Substrate specificities of FLIPQ-TV3.0_1.5 μ (black), 50 μ (hatched), 100 μ (white), 2 mM (horizontal stripes), and 8 mM (gray) sensors to Gln, Glu, Asn and Asp.

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Table 1. Affinities of FLIPQ-TV3.0 point mutants.

Mutations in glnH	<i>K_d</i>	<i>R_{apo}</i>	<i>R_{sat}</i>	$\Delta R/R_0$
WT	85nM	1.09	1.05	0.03
R75K	1.5 μ M	1.23	0.90	0.26
R75M	50 μ M	1.05	0.95	0.10
D157N	130 μ M	1.34	0.99	0.26
R75MW220A	1.6mM	1.29	1.13	0.12
R75MY86A	7.6mM	1.14	1.01	0.11

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Reference

1. Gruenwald K, Holland JT, Stromberg V, Ahmad A, Watcharakichkorn D, Okumoto S (2012) Visualization of Glutamine Transporter Activities in Living Cells Using Genetically Encoded Glutamine Sensors. PLoS ONE 7(6): e38591. doi: [10.1371/journal.pone.0038591](https://doi.org/10.1371/journal.pone.0038591) PMID: [22723868](https://pubmed.ncbi.nlm.nih.gov/22723868/)