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## Data Sheet

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### GFP Selector

Catalog No.	100 µl resin/ 200 µl slurry N0310-S	1000 µl resin/ 2000 µl slurry N0310-L
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### Description

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GFP Selector is based on a high-affinity single-domain antibody (sdAb) that is covalently immobilized on 4 % cross-linked agarose beads. The innovative, oriented and selective attachment via a flexible linker guarantees a high accessibility of the sdAbs and largely eliminates batch-to-batch variations. Due to the single-chain nature of sdAbs and their stable and covalent attachment, no leakage of light and heavy chains is observed during elution with SDS sample buffer. GFP Selector thus features high affinity and superior capacity for GFP fusion proteins while showing negligible unspecific background. GFP Selector immobilizes a wide range of GFP derivatives.

GFP Selector is compatible not only with physiological buffers but also with high stringency buffers (see "Buffer Compatibility" below). GFP Selector thus provides great freedom to adjust the binding and washing conditions to the experimental needs.

For recommended protocols please see our webpage at [www.nano-tag.com/protocols](http://www.nano-tag.com/protocols).

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**To be used *in vitro* / for research only,  
not for diagnostic or therapeutic use!**

**Non-toxic, non-hazardous, non-infectious.**

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## Properties

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<b>Support</b>	4 % cross-linked agarose, bead size 50-150 $\mu\text{m}$
<b>Coating</b>	sdAb anti-GFP clone 1H1
<b>Reactivity</b>	<p>Recognizes GFP, mEGFP, superfolder GFP and most common CFP and YFP variants.</p> <p>Does not cross-react with mCherry, mRFP, dsRed, mTagBFP, mTagRFP or their most common derivatives.</p> <p>For a detailed overview visit our webpage at <a href="http://www.nano-tag.com/protocols">www.nano-tag.com/protocols</a>.</p>
<b>Capacity</b>	> 4 $\mu\text{g}$ GFP per $\mu\text{l}$ of packed beads
<b>Formulation</b>	50 % slurry in PBS containing 20 % Ethanol
<b>Shipment</b>	Shipped at ambient temperature
<b>Storage</b>	Store at 4 °C, do not freeze
<b>Stability</b>	Stable for 12 months
<b>Buffer</b>	<ul style="list-style-type: none"><li>• Common buffer substances at pH 5 to 9</li></ul>
<b>Compatibility</b>	<ul style="list-style-type: none"><li>• 2% Triton X-100, 1% Tween-20, 1% NP-40, 1% CHAPS, 1% Deoxycholate, 0.1% SDS</li><li>• 4 M NaCl, 2 M KCl, 1 M <math>\text{MgCl}_2</math>, 100 mM EDTA</li><li>• 4 M urea</li><li>• 10 mM DTT, 10 mM 2-Mercaptoethanol</li><li>• RNase A, DNase I, Benzonase, protease inhibitors</li></ul>

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For more information please visit our web page at [www.nano-tag.com](http://www.nano-tag.com)

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## anti-Fluorescent Protein Selector Resins Specificity Chart

Fluorescent Protein	GFP Selector	RFP Selector	TagFP Selector
Sirius	++	-	-
tSapphire	++	-	-
Cerulean	++	-	-
eCFP	++	-	-
mTurquoise2	-	-	-
mTFP (mTeal)	+	-	-
acGFP	+	-	-
EGFP	++	-	-
Emerald GFP	++	-	-
mEGFP (A206K)	++	-	-
mEGFP (L221K)	++	-	-
superecliptic pHluorin	+	-	-
paGFP	+	-	-
superfolder GFP	++	-	-
eYFP	+	-	-
mVenus	++	-	-
Citrine	+	-	-
mOrange2	-	+	-
dsRed1	-	++	-
dsRed2	-	++	-
tdTomato	-	++	-
mRFP	-	+	-
mCherry	-	++	-
mTagBFP	-	-	++
mKate	-	-	++
mTagRFP	-	-	++
mTagRFP657	-	-	++
Dendra2	-	-	-
Dronpa	-	-	-
tdEOS	-	-	-
mEOS3.2	-	-	-

**++: strong positive signal; + positive signal; - no signal**