HEK293 microscopy analysis

2026-10-13 · Corrected source assignments · Pre-G418 expression screening

What the images support

The current dataset contains 25 technical fields across 12 image labels and 2,624 eligible DAPI objects. The tables report fluorescence above a blank-derived threshold around resolvable objects. They do not establish whole-population transfection efficiency, viable-cell fractions, stable expression or odor sensing.

Condition pools retain 9.1–22.8% of segmented DAPI foreground. This is an area fraction, not the fraction of all cells retained. Dense and overlapping regions are excluded; accepted objects are not guaranteed to equal individual cells. Fields share one experimental record and are not independent biological repeats.

Corrected labels, unchanged source bytes

The 2026-10-13 source reconciliation reassigned 4 fields to corrected conditions and renumbered 2 fields within conditions. The recorded audit preserves the bytes and SHA-256 identities of all 113 source files (100 individual-channel images, 12 pre-existing merges and one workbook). This is a correction to source assignment, not new image acquisition. Results are recomputed from the corrected folders; labels below follow the current outputs.

The current source manifest contains 113 files. The correction record below retains the previous-to-current mapping and its audit evidence. Original TIFF files and metadata are preserved in the prepared Zenodo release package. The image links below download pixel-identical WebP copies; original TIFF file identities remain recorded in source-manifest.json. The workbook remains linked separately.

Source reassignment provenance

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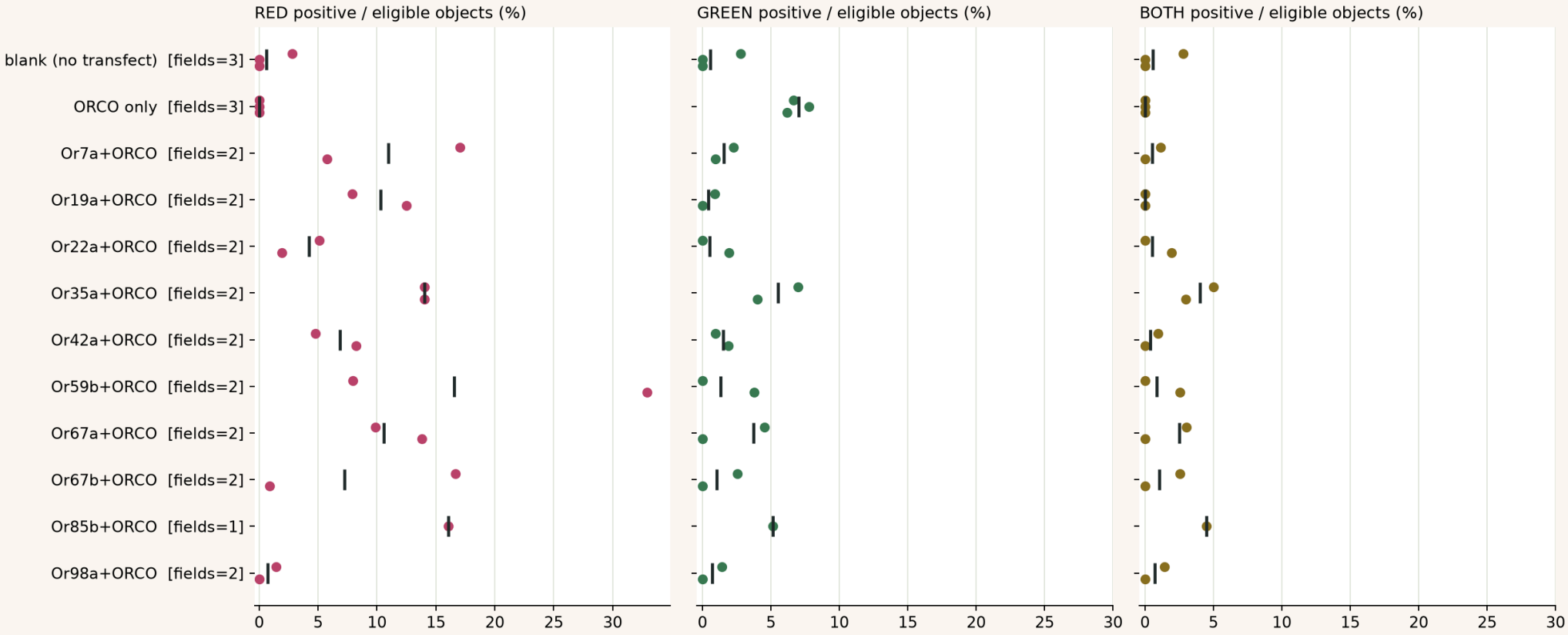
Reporter-positive objects

Pooled technical fields; fractions describe eligible objects, not all cells.

Image label	Fields	RED+ / eligible	GREEN+ / eligible	Both / eligible	DAPI foreground retained
blank (no transfect)	3	1/170 (0.6%)	1/170 (0.6%)	1/170 (0.6%)	9.1%
ORCO only	3	0/342 (0.0%)	24/342 (7.0%)	0/342 (0.0%)	19.6%
Or7a+ORCO	2	21/192 (10.9%)	3/192 (1.6%)	1/192 (0.5%)	16.2%
Or19a+ORCO	2	25/242 (10.3%)	1/242 (0.4%)	0/242 (0.0%)	16.2%
Or22a+ORCO	2	8/189 (4.2%)	1/189 (0.5%)	1/189 (0.5%)	9.9%
Or35a+ORCO	2	28/200 (14.0%)	11/200 (5.5%)	8/200 (4.0%)	10.2%
Or42a+ORCO	2	18/263 (6.8%)	4/263 (1.5%)	1/263 (0.4%)	22.8%
Or59b+ORCO	2	38/230 (16.5%)	3/230 (1.3%)	2/230 (0.9%)	21.1%
Or67a+ORCO	2	17/161 (10.6%)	6/161 (3.7%)	4/161 (2.5%)	10.6%
Or67b+ORCO	2	14/193 (7.3%)	2/193 (1.0%)	2/193 (1.0%)	9.5%
Or85b+ORCO	1	25/156 (16.0%)	8/156 (5.1%)	7/156 (4.5%)	18.9%
Or98a+ORCO	2	2/286 (0.7%)	2/286 (0.7%)	2/286 (0.7%)	20.2%

Resolvable DAPI objects: fluorescence above the blank-derived threshold



Dots: individual fields. Black marks: pooled object fractions. No independent biological repeats.
Across condition pools, 9.1-22.8% of segmented DAPI foreground enters these denominators. These values are not transfection efficiencies.

Dots are technical fields. Black marks divide positive-object totals by eligible-object totals. No biological-replicate confidence interval is inferred.

Complete per-condition table and threshold sensitivity

All condition-level measurements, including P95, P99 and P99.5 calls.

condition	fields	eligible_objects	eligible_blue_foreground_percent	transfection_efficiency_percent	viability_percent	biological_replicates	red_positive_objects_p95	red_positive_fraction_percent_p95	green_positive_objects_p95	green_positive_fraction_percent_p95	red_positive_objects_p99	red_positive_fraction_percent_p99	green_positive_objects_p99	green_positive_fraction_percent_p99	red_positive_objects_p99.5	red_positive_fraction_percent_p99.5	green_positive_objects_p99.5	green_positive_fraction_percent_p99.5	both_positive_objects_p99	both_positive_fraction_percent_p99
blank (no transfect)	3	170	9.125	NA	NA	not independently repeated	3	1.765	3	1.765	1	0.588	1	0.588	1	0.588	1	0.588	1	0.588
Or19a+ORCO	2	242	16.193	NA	NA	not independently repeated	49	20.248	7	2.893	25	10.331	1	0.413	25	10.331	1	0.413	0	0.0
Or22a+ORCO	2	189	9.874	NA	NA	not independently repeated	24	12.698	3	1.587	8	4.233	1	0.529	8	4.233	1	0.529	1	0.529
Or35a+ORCO	2	200	10.248	NA	NA	not independently repeated	70	35.0	27	13.5	28	14.0	11	5.5	23	11.5	7	3.5	8	4.0
Or42a+ORCO	2	263	22.797	NA	NA	not independently repeated	88	33.46	19	7.224	18	6.844	4	1.521	15	5.703	1	0.38	1	0.38

condition	fields	eligible_objects	eligible_blue_foreground_percent	transfection_efficiency_percent	viability_percent	biological_replicates	red_positive_objects_p95	red_positive_fraction_percent_p95	green_positive_objects_p95	green_positive_fraction_percent_p95	red_positive_objects_p99	red_positive_fraction_percent_p99	green_positive_objects_p99	green_positive_fraction_percent_p99	red_positive_objects_p99.5	red_positive_fraction_percent_p99.5	green_positive_objects_p99.5	green_positive_fraction_percent_p99.5	both_positive_objects_p99	both_positive_fraction_percent_p99
Or59b+ORCO	2	230	21.079	NA	NA	not independently repeated	89	38.696	13	5.652	38	16.522	3	1.304	36	15.652	1	0.435	2	0.87
Or67a+ORCO	2	161	10.559	NA	NA	not independently repeated	60	37.267	12	7.453	17	10.559	6	3.727	16	9.938	6	3.727	4	2.484
Or67b+ORCO	2	193	9.539	NA	NA	not independently repeated	46	23.834	11	5.699	14	7.254	2	1.036	13	6.736	2	1.036	2	1.036
Or7a+ORCO	2	192	16.205	NA	NA	not independently repeated	45	23.438	18	9.375	21	10.938	3	1.562	20	10.417	3	1.562	1	0.521
Or85b+ORCO	1	156	18.93	NA	NA	not independently repeated	48	30.769	14	8.974	25	16.026	8	5.128	24	15.385	7	4.487	7	4.487

condition	fields	eligible_objects	eligible_blue_foreground_percent	transfection_efficiency_percent	viability_percent	biological_replicates	red_positive_objects_p95	red_positive_fraction_percent_p95	green_positive_objects_p95	green_positive_fraction_percent_p95	red_positive_objects_p99	red_positive_fraction_percent_p99	green_positive_objects_p99	green_positive_fraction_percent_p99	red_positive_objects_p99.5	red_positive_fraction_percent_p99.5	green_positive_objects_p99.5	green_positive_fraction_percent_p99.5	both_positive_objects_p99	both_positive_fraction_percent_p99
Or98a+ORCO	2	286	20.183	NA	NA	not independently repeated	88	30.769	11	3.846	2	0.699	2	0.699	0	0.0	2	0.699	2	0.699
ORCO only	3	342	19.61	NA	NA	not independently repeated	47	13.743	50	14.62	0	0.0	24	7.018	0	0.0	19	5.556	0	0.0

Complete per-field table

Every measured field, all thresholds and denominators.

condition	field	segmented_blue_foreground_pixels	eligible_object_foreground_pixels	eligible_blue_foreground_percent	excluded_components_area_ge_200px	eligible_objects	red_positive_objects_p95	red_positive_fraction_percent_p95	green_positive_objects_p95	green_positive_fraction_percent_p95	red_positive_objects_p99	red_positive_fraction_percent_p99	green_positive_objects_p99	green_positive_fraction_percent_p99	red_positive_objects_p99.5	red_positive_fraction_percent_p99.5	green_positive_objects_p99.5	green_positive_fraction_percent_p99.5	both_positive_objects_p99	both_positive_fraction_percent_p99	transfection_efficiency_percent	viability_percent
blank (no transfect)	1	811914	43200	5.321	74	36	2	5.556	2	5.556	1	2.778	1	2.778	1	2.778	1	2.778	1	2.778	NA	NA
blank (no transfect)	2	549991	68453	12.446	52	72	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	NA	NA

condition	field	segmented_blue_foreground_pixels	eligible_object_foreground_pixels	eligible_blue_foreground_percent	excluded_components_area_ge_200px	eligible_objects	red_positive_objects_p95	red_positive_fraction_percent_p95	green_positive_objects_p95	green_positive_fraction_percent_p95	red_positive_objects_p99	red_positive_fraction_percent_p99	green_positive_objects_p99	green_positive_fraction_percent_p99	red_positive_objects_p99.5	red_positive_fraction_percent_p99.5	green_positive_objects_p99.5	green_positive_fraction_percent_p99.5	both_positive_objects_p99	both_positive_fraction_percent_p99	transfection_efficiency_percent	viability_percent
blank (no transfect)	3	566728	64333	11.352	72	62	1	1.613	1	1.613	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	NA	NA
Or19a+ORCO	1	576864	90686	15.721	48	114	26	22.807	6	5.263	9	7.895	1	0.877	9	7.895	1	0.877	0	0.0	NA	NA
Or19a+ORCO	2	552736	92233	16.687	65	128	23	17.969	1	0.781	16	12.5	0	0.0	16	12.5	0	0.0	0	0.0	NA	NA
Or22a+ORCO	1	902987	133621	14.798	52	137	21	15.328	2	1.46	7	5.109	0	0.0	7	5.109	0	0.0	0	0.0	NA	NA
Or22a+ORCO	2	1087634	62939	5.787	32	52	3	5.769	1	1.923	1	1.923	1	1.923	1	1.923	1	1.923	1	1.923	NA	NA
Or35a+ORCO	1	1276532	90316	7.075	95	100	45	45.0	16	16.0	14	14.0	7	7.0	11	11.0	5	5.0	5	5.0	NA	NA
Or35a+ORCO	2	588885	100853	17.126	72	100	25	25.0	11	11.0	14	14.0	4	4.0	12	12.0	2	2.0	3	3.0	NA	NA
Or42a+ORCO	1	333180	92276	27.696	46	105	23	21.905	3	2.857	5	4.762	1	0.952	4	3.81	0	0.0	1	0.952	NA	NA
Or42a+ORCO	2	636349	128747	20.232	87	158	65	41.139	16	10.127	13	8.228	3	1.899	11	6.962	1	0.633	0	0.0	NA	NA

condition	field	segmented_blue_foreground_pixels	eligible_object_foreground_pixels	eligible_blue_foreground_percent	excluded_components_area_ge_200px	eligible_objects	red_positive_objects_p95	red_positive_fraction_percent_p95	green_positive_objects_p95	green_positive_fraction_percent_p95	red_positive_objects_p99	red_positive_fraction_percent_p99	green_positive_objects_p99	green_positive_fraction_percent_p99	red_positive_objects_p99.5	red_positive_fraction_percent_p99.5	green_positive_objects_p99.5	green_positive_fraction_percent_p99.5	both_positive_objects_p99	both_positive_fraction_percent_p99	transfection_efficiency_percent	viability_percent
Or59b+ORCO	1	602550	126011	20.913	62	151	41	27.152	3	1.987	12	7.947	0	0.0	12	7.947	0	0.0	0	0.0	NA	NA
Or59b+ORCO	2	360489	76992	21.358	38	79	48	60.759	10	12.658	26	32.911	3	3.797	24	30.38	1	1.266	2	2.532	NA	NA
Or67a+ORCO	1	773300	93387	12.076	51	132	45	34.091	11	8.333	13	9.848	6	4.545	12	9.091	6	4.545	4	3.03	NA	NA
Or67a+ORCO	2	402312	30750	7.643	15	29	15	51.724	1	3.448	4	13.793	0	0.0	4	13.793	0	0.0	0	0.0	NA	NA
Or67b+ORCO	1	724745	69598	9.603	49	78	18	23.077	8	10.256	13	16.667	2	2.564	12	15.385	2	2.564	2	2.564	NA	NA
Or67b+ORCO	2	1136966	107996	9.499	79	115	28	24.348	3	2.609	1	0.87	0	0.0	1	0.87	0	0.0	0	0.0	NA	NA
Or7a+ORCO	1	583338	88072	15.098	77	88	28	31.818	7	7.955	15	17.045	2	2.273	14	15.909	2	2.273	1	1.136	NA	NA
Or7a+ORCO	2	529938	92332	17.423	68	104	17	16.346	11	10.577	6	5.769	1	0.962	6	5.769	1	0.962	0	0.0	NA	NA
Or85b+ORCO	1	676710	128100	18.93	70	156	48	30.769	14	8.974	25	16.026	8	5.128	24	15.385	7	4.487	7	4.487	NA	NA

condition	field	segmented_blue_foreground_pixels	eligible_object_foreground_pixels	eligible_blue_foreground_percent	excluded_components_area_ge_200px	eligible_objects	red_positive_objects_p95	red_positive_fraction_percent_p95	green_positive_objects_p95	green_positive_fraction_percent_p95	red_positive_objects_p99	red_positive_fraction_percent_p99	green_positive_objects_p99	green_positive_fraction_percent_p99	red_positive_objects_p99.5	red_positive_fraction_percent_p99.5	green_positive_objects_p99.5	green_positive_fraction_percent_p99.5	both_positive_objects_p99	both_positive_fraction_percent_p99	transfection_efficiency_percent	viability_percent
Or98a+ORCO	1	450825	137690	30.542	76	140	41	29.286	9	6.429	2	1.429	2	1.429	0	0.0	2	1.429	2	1.429	NA	NA
Or98a+ORCO	2	943317	143694	15.233	99	146	47	32.192	2	1.37	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	NA	NA
ORCO only	1	426694	99140	23.234	42	120	9	7.5	17	14.167	0	0.0	8	6.667	0	0.0	7	5.833	0	0.0	NA	NA
ORCO only	2	568032	127760	22.492	43	141	34	24.113	19	13.475	0	0.0	11	7.801	0	0.0	8	5.674	0	0.0	NA	NA
ORCO only	3	591414	84147	14.228	56	81	4	4.938	14	17.284	0	0.0	5	6.173	0	0.0	4	4.938	0	0.0	NA	NA

Every segmented object, its inclusion decision and reporter scores are available in the complete object measurement CSV (archive availability).

Methods

Source data and experimental context

The host was HEK293, as confirmed by the team. Imaging occurred approximately 44–48 h after transfection and before G418. The team fixed cells with 2% paraformaldehyde (PFA), performed no permeabilization step, and then stained with DAPI. The source workbook contains plate-layout and reagent-calculation records, including DAPI/G418 layouts and lipid-reagent mixtures. These records do not independently establish experimental execution or an assay outcome; the VUAA1/odor grids contain labels without response measurements. The workbook does not supply objective, numerical aperture, camera model, gain, acquisition software, DAPI concentration, fixation duration, or field coordinates. Neither the source TIFF tags nor the workbook establishes these missing acquisition details. The biological preparation and transfection record is linked from Experiments; undocumented settings are not reconstructed from a literature protocol.

Conservative DAPI segmentation

The BLUE plane was extracted from each exported TIFF. A 3 × 3 median filter was used for segmentation only, followed by a common threshold of >128 on the 0–255 export scale and 8-connected labeling. The bottom-right annotation rectangle (x ≥85% of image width and y ≥90% of image height) was excluded equally in every field. Eligible objects had area 200–2200 pixels, bounding-box aspect ratio ≤2.5, and object area/bounding-box area ≥0.4. Objects within 49 pixels of a frame edge or whose measurement neighborhood intersected the annotation exclusion were rejected. No watershed split was imposed on merged objects.

These rules define a conservative image-analysis subset, not a validated nuclear census. Segmentation has been visually inspected, but not benchmarked against independently annotated cell boundaries. Small touching nuclei or nuclear fragments can still pass these geometric filters, so an accepted object is not guaranteed to equal one cell. DAPI is a nuclear counterstain commonly used with fixed preparations. Here, fixation is confirmed and no permeabilization was performed; completeness and uniformity of nuclear labeling were not independently assessed. Fixed DAPI images do not recover the cells' viability before fixation. [4]

Reporter measurement and positivity threshold

For each eligible object, the signal region contains its nuclear mask plus pixels within 12 pixels, assigned to the nearest blue connected component to limit sharing between adjacent objects. The local background is sampled 24–48 pixels from that object, excluding blue foreground; at least 100 background pixels are required. For RED and GREEN separately, the score is the signal region's 90th percentile intensity minus the background median. Measurements use the original exported channel values, before the display adjustments.

This nearest-DAPI expansion does not segment cell boundaries. Excluding blue foreground from the background ring also does not exclude every neighboring cell's cytoplasm. Fluorescent cytoplasm within that ring can raise the estimated background and reduce an object's score, particularly in dense fields.

The primary positivity threshold is the maximum of the three blank-field 99th percentiles of these object scores: **RED >16.60 DN and GREEN >11.95 DN**. DN denotes the 8-bit exported digital value. Alternative P95 and P99.5 blank thresholds are reported for sensitivity analysis. Thresholds are calibrated and evaluated using the same blank set, so the blank fraction is a calibration diagnostic, not an independent false-positive validation.

The reported fraction is 100 × positive eligible objects / all eligible objects. Condition summaries pool these counts across fields; they do not average percentages with different denominators. "Both" indicates both channel criteria within one object's measurement region. It does not prove two-plasmid delivery, protein localization, or co-expression in a viable cell.

Image processing and presentation

Original TIFF and workbook files were opened read-only and verified by SHA-256 checksums. New figures use fixed linear display windows across all conditions: DAPI 0–255, GREEN 0–120 and RED 0–180; brightfield remains 0–255. The enhanced display can clip bright exported values and is used only for viewing. Original-level views remain available. No sharpening, deconvolution, content removal, generative enhancement or reconstruction of missing detail was applied. The same-field RGB merges combine the original channel positions; no registration correction was imposed. [5] [6]

Web previews are resized with Lanczos resampling and saved as lossless WebP. The original scale bars remain within the full field; they were not used to infer pixel size. Object overlays mark classifications on a dimmed merge for legibility and have full-resolution PNG versions for audit.

Microscopy results and all-field gallery · Scripts, data and source files

Current numeric analysis parameters

{"analysis_date": "2026-10-13", "status": "Exploratory reporter-positive fractions in resolvable DAPI objects; NOT transfection efficiency", "confirmed_by_team_2026_10_10": {"blue": "DAPI", "paired_fields": true, "same_exposure_per_fluorescence_channel_across_groups": true, "blank_calibration": true, "time_post_transfection_hours": [44, 48], "before_G418": true, "independent_biological_replicates": false, "live_dead_stain": false, "fixation": "2% PFA before DAPI", "permeabilization": "none"}, "not_confirmed": ["Gain, LUT and raw camera intensity conversion", "Total-cell staining completeness", "Viability", "Nuclear segmentation ground truth"], "blue_threshold": 128, "median_filter_size_px": 3, "connectivity": 8, "min_object_area_px": 200, "max_object_area_px": 2200, "max_bbox_aspect_ratio": 2.5, "min_area_over_bbox": 0.4, "min_border_distance_px": 49, "signal_region": "Nuclear mask and pixels within 12 px, assigned to the nearest blue connected component", "local_background": "Pixels 24-48 px from each object, excluding all blue foreground; minimum 100 pixels", "reporter_score": "90th percentile of reporter intensity in signal region minus median local background", "positivity": "Score strictly above maximum of the 3 blank-field 99th score percentiles, separately for RED/GREEN", "sensitivity": "Also report maximum blank-field 95th and 99.5th score percentile thresholds", "exclusion": "No watershed splitting. Tiny, oversized, elongated, low-fill, edge and insufficient-background objects excluded.", "denominator": "Resolvable DAPI-positive connected objects meeting all criteria. Not all cells and not all viable cells.", "aggregation": "Sum positive objects / sum eligible objects across technical fields. Per-field fractions and counts retained.", "uncertainty": "No biological-replicate confidence intervals or hypothesis tests; field and threshold sensitivity shown.", "reporter_thresholds_DN": {"red": {"95": 11.75, "99": 16.6, "99.5": 17.3}, "green": {"95": 9.25, "99": 11.95, "99.5": 12.475}}}

Control and image-export diagnostics

Control comparisons are exploratory summaries under an assumed independent-object model. Objects share fields and the blank data also fitted the threshold. Fisher probabilities and Wilson intervals therefore do not measure culture-level significance or biological-repeat uncertainty. Holm adjustment does not remove these limits. Blank-field holdout is a same-batch diagnostic, not external specificity validation.

Browse the control comparison files (archive availability). The source index lists their tables, figures, parameters and script alongside the primary analysis files.

Complete control comparison

Nominal object-model comparisons; no biological significance claim.

condition	channel	fields	positive	eligible	fraction_percent	nominal_wilson95_low_percent	nominal_wilson95_high_percent	difference_from_blank_percentage_points	fisher_one_sided_p	holm_11_within_channel_p	nominal_holm_below_0_05	inference
blank (no transfect)	RED	3	1	170	0.5882352941176471	0.10391355302600373	3.2563083755805829	0.0				Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference

condition	channel	fields	positive	eligible	fraction_percent	nominal_wilson95_low_percent	nominal_wilson95_high_percent	difference_from_blank_percentage_points	fisher_one_sided_p	holm_11_within_channel_p	nominal_holm_below_0_05	inference
Or19a+ORCO	RED	2	25	242	10.330578512396695	7.095712531404888	14.805173950058641	9.742343218279048	1.1658590426847954e-05	8.770485464084823e-05	True	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
Or22a+ORCO	RED	2	8	189	4.232804232804233	2.1601819155109157	8.128818666642381	3.6445689386865854	0.026778389433543846	0.08033516830063153	False	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
Or35a+ORCO	RED	2	28	200	14.0	9.866982633455635	19.489880865707565	13.411764705882353	1.9353187088600628e-07	1.7417868379740565e-06	True	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
Or42a+ORCO	RED	2	18	263	6.844106463878327	4.372736632171269	10.558023751456318	6.255871169760679	0.0008364641989236548	0.004182320994618274	True	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference

condition	channel	fields	positive	eligible	fraction_percent	nominal_wilson95_low_percent	nominal_wilson95_high_percent	difference_from_blank_percentage_points	fisher_one_sided_p	holm_11_within_channel_p	nominal_holm_below_0_05	inference
Or59b+ORCO	RED	2	38	230	16.52173913043478	12.280095988332967	21.863318624007 13	15.933503836317135	3.348046395139545e-09	3.682851034 6535e-08	True	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
Or67a+ORCO	RED	2	17	161	10.559006211180124	6.697630350 36376	16.258644782978806	9.970770917062477	3.084150021 108329e-05	0.000185049 0012664997 7	True	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
Or67b+ORCO	RED	2	14	193	7.253886010362694	4.369852822 75432	11.806342482574623	6.665650716245048	0.000897049 0603220489	0.004182320 994618274	True	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
Or7a+ORCO	RED	2	21	192	10.9375	7.265855054023302	16.141578232441862	10.349264705882351	1.096310683 0106029e-05	8.770485464 084823e-05	True	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference

condition	channel	fields	positive	eligible	fraction_percent	nominal_wilson95_low_percent	nominal_wilson95_high_percent	difference_from_blank_percentage_points	fisher_one_sided_p	holm_11_within_channel_p	nominal_holm_below_0_05	inference
Or85b+ORCO	RED	1	25	156	16.025641025641026	11.096813709904884	22.587475221098945	15.437405731523379	5.065024494822823e-08	5.065024494822823e-07	True	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
Or98a+ORCO	RED	2	2	286	0.6993006993006993	0.19198342285316022	2.5134469364196033	0.11106540518305225	0.6870673379483953	1.0	False	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
ORCO only	RED	3	0	342	0.0	0	1.1107571757860812	-0.5882352941176471	1.0	1.0	False	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
blank (no transfect)	GREEN	3	1	170	0.5882352941176471	0.10391355302600373	3.256308375805829	0.0				Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference

condition	channel	fields	positive	eligible	fraction_percent	nominal_wilson95_low_percent	nominal_wilson95_high_percent	difference_from_blank_percentage_points	fisher_one_sided_p	holm_11_within_channel_p	nominal_holm_below_0_05	inference
Or19a+ORCO	GREEN	2	1	242	0.4132231404958678	0.07298131132703836	2.303126790502372	-0.17501215362177927	0.8303333097111001	1.0	False	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
Or22a+ORCO	GREEN	2	1	189	0.5291005291005291	0.09346037378160608	2.935690544499015	-0.05913476501711798	0.7764585051586499	1.0	False	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
Or35a+ORCO	GREEN	2	11	200	5.5	3.098534170345884	9.57869987723084	4.911764705882353	0.006276619793853993	0.06276619793853992	False	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
Or42a+ORCO	GREEN	2	4	263	1.520912547528517	0.5930012021795966	3.84463711423025	0.9326772534108 7	0.3486805964177 3314	1.0	False	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference

condition	channel	fields	positive	eligible	fraction_percent	nominal_wilson95_low_percent	nominal_wilson95_high_percent	difference_from_blank_percentage_points	fisher_one_sided_p	holm_11_within_channel_p	nominal_holm_below_0_05	inference
Or59b+ORCO	GREEN	2	3	230	1.3043478260869565	0.4445695104895	3.76403356200479	0.7161125319693094	0.4319156957873208 6	1.0	False	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
Or67a+ORCO	GREEN	2	6	161	3.7267080745341614	1.7189785295529 35	7.8911395402741 66	3.1384727804165147	0.0522018886621134 1	0.4176151092969 0726	False	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
Or67b+ORCO	GREEN	2	2	193	1.0362694300518134	0.2846439924494 5704	3.6989979027455 12	0.4480341359341 6647	0.5475882974265586	1.0	False	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
Or7a+ORCO	GREEN	2	3	192	1.5625	0.5327893387868189	4.4924279364299 86	0.9742647058823529	0.3585050284801863	1.0	False	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference

condition	channel	fields	positive	eligible	fraction_percent	nominal_wilson95_low_percent	nominal_wilson95_high_percent	difference_from_blank_percentage_points	fisher_one_sided_p	holm_11_within_channel_p	nominal_holm_below_0_05	inference
Or85b+ORCO	GREEN	1	8	156	5.128205128205129	2.6211493454316686	9.792062450233773	4.539969834087481	0.013181999 42410315	0.118637994 81692835	False	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
Or98a+ORCO	GREEN	2	2	286	0.6993006993006993	0.1919834222 85316022	2.5134469364196033	0.1110654051 8305225	0.6870673379483953	1.0	False	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference
ORCO only	GREEN	3	24	342	7.017543859649122	4.760797427570908	10.229151723543444	6.429308565531475	0.000440994 7511632967 7	0.004850942 262796264	True	Independent-object model only; pseudoreplication and fitted blank preclude culture-level inference

All blank-field holdouts

Post-hoc within-batch blank-field audit.

channel	held_out_field	calibration_fields	threshold_DN	held_out_positive	held_out_eligible	held_out_fraction_percent	scope
RED	1	2;3	11.39	2	36	5.555555555555555	Post-hoc same-batch blank-field holdout; not external specificity

channel	held_out_field	calibration_fields	threshold_DN	held_out_positive	held_out_eligible	held_out_fraction_percent	scope
RED	2	1;3	16.599999999999994	0	72	0.0	Post-hoc same-batch blank-field holdout; not external specificity
RED	3	1;2	16.599999999999994	0	62	0.0	Post-hoc same-batch blank-field holdout; not external specificity
GREEN	1	2;3	9.780000000000001	2	36	5.555555555555555	Post-hoc same-batch blank-field holdout; not external specificity
GREEN	2	1;3	11.949999999999996	0	72	0.0	Post-hoc same-batch blank-field holdout; not external specificity
GREEN	3	1;2	11.949999999999996	0	62	0.0	Post-hoc same-batch blank-field holdout; not external specificity

Area versus object diagnostics

Different denominators and estimands.

condition	channel	fields	median_pixel_area_percent	pooled_object_percent	retained_DAPI_foreground_percent
blank (no transfect)	RED	3	0.0019	0.5882352941176471	9.125
blank (no transfect)	GREEN	3	0.0612	0.5882352941176471	9.125
Or19a+ORCO	RED	2	0.7978	10.330578512396695	16.193
Or19a+ORCO	GREEN	2	56.7892	0.4132231404958678	16.193
Or22a+ORCO	RED	2	0.7521	4.232804232804233	9.874
Or22a+ORCO	GREEN	2	51.2278	0.5291005291005291	9.874
Or35a+ORCO	RED	2	0.828	14.0	10.248

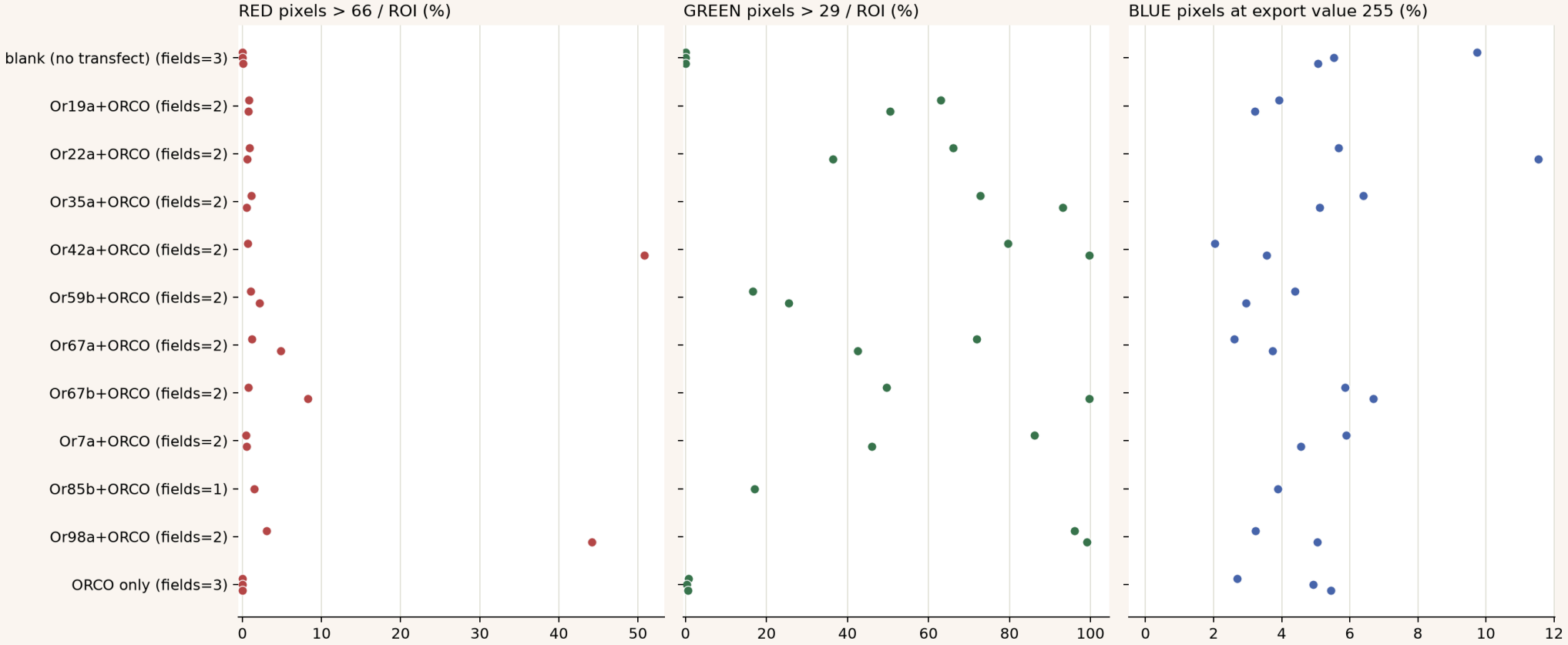
condition	channel	fields	median_pixel_area_percent	pooled_object_percent	retained_DAPI_foreground_percent
Or35a+ORCO	GREEN	2	83.0167	5.5	10.248
Or42a+ORCO	RED	2	25.7584	6.844106463878327	22.797
Or42a+ORCO	GREEN	2	89.6547	1.520912547528517	22.797
Or59b+ORCO	RED	2	1.5675	16.52173913043478	21.079
Or59b+ORCO	GREEN	2	21.0604	1.3043478260869565	21.079
Or67a+ORCO	RED	2	2.9947	10.559006211180124	10.559
Or67a+ORCO	GREEN	2	57.1826	3.7267080745341614	10.559
Or67b+ORCO	RED	2	4.5177	7.253886010362694	9.539
Or67b+ORCO	GREEN	2	74.6394	1.0362694300518134	9.539
Or7a+ORCO	RED	2	0.4999	10.9375	16.205
Or7a+ORCO	GREEN	2	66.0315	1.5625	16.205
Or85b+ORCO	RED	1	1.4673	16.025641025641026	18.93
Or85b+ORCO	GREEN	1	17.0284	5.128205128205129	18.93
Or98a+ORCO	RED	2	23.611	0.6993006993006993	20.183
Or98a+ORCO	GREEN	2	97.5481	0.6993006993006993	20.183
ORCO only	RED	3	0.0083	0.0	19.61
ORCO only	GREEN	3	0.5395	7.017543859649122	19.61

Descriptive correlations.

channel	subset	n	spearman_rho	descriptive_p	scope

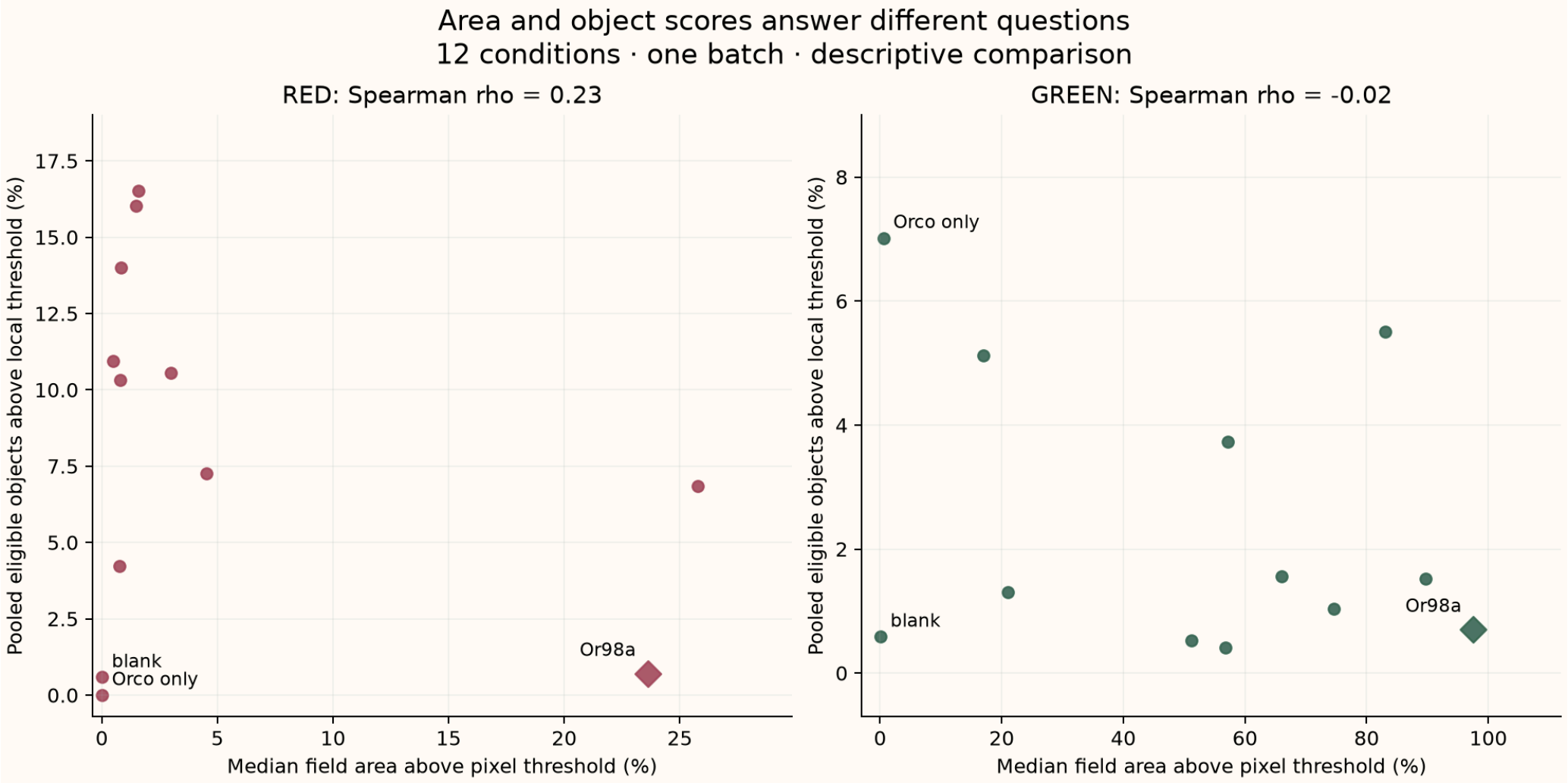
channel	subset	n	spearman_rho	descriptive_p	scope
RED	all 12 conditions	12	0.23076923076923078	0.470531995381542	Different estimands, small non-independent dataset; no equivalence test
RED	10 receptor conditions	10	-0.32121212121212117	0.36546831043867045	Different estimands, small non-independent dataset; no equivalence test
GREEN	all 12 conditions	12	-0.02097902097902098	0.9484022252365222	Different estimands, small non-independent dataset; no equivalence test
GREEN	10 receptor conditions	10	0.006060606060606061	0.9867429111949892	Different estimands, small non-independent dataset; no equivalence test

Image-export diagnostics across every supplied field



Each point is one field, not a biological replicate. Pixel-area percentages are not transfection efficiency.
Thresholds derive from the most conservative blank-field 99.9th percentile. Per-channel exposure matched; camera-to-export transformation unknown.

Image-export diagnostics retain every measured field. Pixel-area percentages do not count cells.



Area and object measurements use different denominators. Correlation does not establish equivalence.

These diagnostics cannot establish transfection efficiency. Camera dynamic range and export transformation remain incompletely documented.

What remains to be tested

Independent repeats, validated cell or nucleus denominators, viability measurements and controlled fluorescence time courses are required for stronger conclusions. GCaMP6f resting intensity is calcium dependent, so a green-negative object cannot be classified as untransfected. A red-positive object does not establish correct receptor localization or cell viability. This fixed pre-selection record does not test enrichment by G418.

Data and reproduction

The package contains the current measurement tables, parameter and source JSON, four active scripts, control comparison artifacts, figures, canonical methods and a reproduction README. The legacy publisher is not used because it also rewrites website pages. External wiki/source links require the original repository layout or the online site; the measurement tables and figures are included in the package.

- Analysis files and original inputs (archive availability)
- source-revision-2026-10-13.json (archive availability)
- analyze_microscopy.py
- analyze_nuclear_objects.py
- compare_controls.py
- render_analysis_artifacts.py
- analysis-parameters.json (archive availability)
- field-gallery.json (archive availability)
- source-manifest.json
- verification.json
- per-condition-summary.csv (archive availability)
- per-field-summary.csv (archive availability)
- per-field-channel-qc.csv
- nuclear-object-measurements.csv (archive availability)
- nuclear-object-parameters.json
- nuclear-object-summary.json
- nuclear-object-per-condition.csv (archive availability)
- nuclear-object-per-field.csv
- control-comparison.csv
- control-comparison-summary.json (archive availability)
- blank-field-holdout.csv (archive availability)
- area-object-comparison.csv (archive availability)
- area-object-correlations.csv (archive availability)
- or98a-export-diagnostics.csv (archive availability)

- README.txt
- CONTROL-COMPARISON-README.txt
- area-object-agreement.webp
- area-object-agreement.svg
- all-field-diagnostics.webp
- all-field-diagnostics.svg

Pixel-identical WebP downloads and original source hashes

- wetlab results/transfection_effeciency/blank (no transfect)/BLUE_1.webp (pixel-identical image)
  Original source SHA-256: d66d16da4204df965e5502c4fdfa73d4b173ba66d2816a0bef90e4f323b19eb8
- wetlab results/transfection_effeciency/blank (no transfect)/BLUE_2.webp (pixel-identical image)
  Original source SHA-256: 5973a3ca8184ffdfb379eb7e9662e755fbe20edc6ec6f3f9dbd49ec00bed3f37
- wetlab results/transfection_effeciency/blank (no transfect)/BLUE_3.webp (pixel-identical image)
  Original source SHA-256: 2137a1e0e09e7895d1942ced8e01fd2e289ee21bc46b96a8149f55d1fb29d975
- wetlab results/transfection_effeciency/blank (no transfect)/BRIGHTFIELD_1.webp (pixel-identical image)
  Original source SHA-256: ddbb677edcd2d00cf8ab8b779b6f4151b5e4779cda18a7c4bb9a1e237d71be10
- wetlab results/transfection_effeciency/blank (no transfect)/BRIGHTFIELD_2.webp (pixel-identical image)
  Original source SHA-256: 707f87171d3fa4183a43a68d7157a5078c8332149c81b29d8ffff54bafe6a606
- wetlab results/transfection_effeciency/blank (no transfect)/BRIGHTFIELD_3.webp (pixel-identical image)
  Original source SHA-256: b842a23f9a298e513980122e383d4ee4970b886d12602c32be228bc7ae83e9b1
- wetlab results/transfection_effeciency/blank (no transfect)/GREEN_1.webp (pixel-identical image)
  Original source SHA-256: e2a8131d1c3aa46c14154b5533f540f4314d69770c30eda50654c46a7687fca3
- wetlab results/transfection_effeciency/blank (no transfect)/GREEN_2.webp (pixel-identical image)
  Original source SHA-256: 449b003c468048cbc7e6108553db65023ccad216fab6d27a1f9a847a6abb97cb
- wetlab results/transfection_effeciency/blank (no transfect)/GREEN_3.webp (pixel-identical image)
  Original source SHA-256: 5bdf470f4ddf2863d6f65717726404af0f71230b1cfc960eab646e79fe6ce124
- wetlab results/transfection_effeciency/blank (no transfect)/MERGE_2.webp (pixel-identical image)
  Original source SHA-256: d7ecf759ddb054337b5ed74ac601b97c5f884aadb34089e35c8cc5acf4d365d7
- wetlab results/transfection_effeciency/blank (no transfect)/RED_1.webp (pixel-identical image)
  Original source SHA-256: fddfb4cc77cf8ddf051ccca2bc73bf4459b433dadfd42ccd45cd017f6ea11c34
- wetlab results/transfection_effeciency/blank (no transfect)/RED_2.webp (pixel-identical image)
  Original source SHA-256: 4c13035049616db1540cc55e681f7680b1d237289869a06bc8e569665bed0055
- wetlab results/transfection_effeciency/blank (no transfect)/RED_3.webp (pixel-identical image)
  Original source SHA-256: 58c6eb658dfaab5b728bbf19405242b540c9f52cc938edaedf35cda6ac15e71f
- wetlab results/transfection_effeciency/Or19a+ORCO/BLUE_1.webp (pixel-identical image)
  Original source SHA-256: b7e01f1cf19a2c68a3c2c72bad10eb88ead3fec7895d94ca09dbbebd1063d72b
- wetlab results/transfection_effeciency/Or19a+ORCO/BLUE_2.webp (pixel-identical image)

Original source SHA-256: fc00f9262defb7c24c8caa7a624e07a610ff1292c005964240f234024191ea31

- wetlab results/transfection_effeciency/Or19a+ORCO/BRIGHTFIELD_1.webp (pixel-identical image)
  Original source SHA-256: 2d1e925be7b6116230bdd806c96367fc2707be76df7a67a0c70b80aad582a491
- wetlab results/transfection_effeciency/Or19a+ORCO/BRIGHTFIELD_2.webp (pixel-identical image)
  Original source SHA-256: 9b71e6e1ae3e0daaffb093435b4c521774f133d9a69a02f73a87c0f5145edc8a
- wetlab results/transfection_effeciency/Or19a+ORCO/GREEN_1.webp (pixel-identical image)
  Original source SHA-256: e64deef6cfc0783832c847689e87c32ff640d48eb153fb74c7b8eac9a00e5761
- wetlab results/transfection_effeciency/Or19a+ORCO/GREEN_2.webp (pixel-identical image)
  Original source SHA-256: 577b384afe28c5e9bcdd1de4e62e2b6a2b2f749b39d7dd1468df65690d1554cc
- wetlab results/transfection_effeciency/Or19a+ORCO/MERGE_2.webp (pixel-identical image)
  Original source SHA-256: 5d96d4044c27738056a4770c2d954fc89ee05ed1883df3d975a8fdc232aca57b
- wetlab results/transfection_effeciency/Or19a+ORCO/RED_1.webp (pixel-identical image)
  Original source SHA-256: 8d32bf2dbe06b4038007bd60c7d65a18083e7a76e5283fe6f91a89b5d7d155b0
- wetlab results/transfection_effeciency/Or19a+ORCO/RED_2.webp (pixel-identical image)
  Original source SHA-256: 96b2deac285dfafa4358108ddf011efe6db54e52eb99e975141208059c95c360
- wetlab results/transfection_effeciency/Or22a+ORCO/BLUE_1.webp (pixel-identical image)
  Original source SHA-256: 982db8041f0c19d1a0485bce1446f8c3162054d93104d60981f6f0a0dc096091
- wetlab results/transfection_effeciency/Or22a+ORCO/BLUE_2.webp (pixel-identical image)
  Original source SHA-256: 1602176e325ca46a01c05c20dd75404df9cb33a78663d293b996fb3cd72f14ab
- wetlab results/transfection_effeciency/Or22a+ORCO/BRIGHTFIELD_1.webp (pixel-identical image)
  Original source SHA-256: fbff8baec9fb331543177b478c4e7dcab3204e141e9420ea1344f6c04f0de6c0
- wetlab results/transfection_effeciency/Or22a+ORCO/BRIGHTFIELD_2.webp (pixel-identical image)
  Original source SHA-256: df7be350685383d1f26611fbb6657d7489826ba27d8c6f69b98be6941e913fc8
- wetlab results/transfection_effeciency/Or22a+ORCO/GREEN_1.webp (pixel-identical image)
  Original source SHA-256: 67b03069dedfd50d52cebf42be68f5376cca31e87160f011dc293a6403346527
- wetlab results/transfection_effeciency/Or22a+ORCO/GREEN_2.webp (pixel-identical image)
  Original source SHA-256: bd7655175b5cee2bc2259ad2018ada44185bb8a4aaf9d7c2c882063834169438
- wetlab results/transfection_effeciency/Or22a+ORCO/MERGE_1.webp (pixel-identical image)
  Original source SHA-256: bddb240dfc49158664afe93a2d520032f367813b461bf481dc7bffd4bd782d5f
- wetlab results/transfection_effeciency/Or22a+ORCO/RED_1.webp (pixel-identical image)
  Original source SHA-256: 9aaf10a9ed50cf07c365873023bb909b770845177a6631186069928115b44e16
- wetlab results/transfection_effeciency/Or22a+ORCO/RED_2.webp (pixel-identical image)
  Original source SHA-256: f66bc664dd1417f06b2e192514dcf2efb8620856f8f7e874ca973c96157412fe
- wetlab results/transfection_effeciency/Or35a+ORCO/BLUE_1.webp (pixel-identical image)
  Original source SHA-256: 3c6782103882e201696809fd260d56d426c13c4f730de8a1bbd6967ff0dea8e0
- wetlab results/transfection_effeciency/Or35a+ORCO/BLUE_2.webp (pixel-identical image)
  Original source SHA-256: ca8d00ce4411edb6ab22d250cc43d2f6bcdfff028284bd290baf517e3cbd706c
- wetlab results/transfection_effeciency/Or35a+ORCO/BRIGHTFIELD_1.webp (pixel-identical image)

Original source SHA-256: 9b6a7a4344463479173c06d5349de8849f8d851552070e74e0cfae70c7c058c2

- wetlab results/transfection_effeciency/Or35a+ORCO/BRIGHTFIELD_2.webp (pixel-identical image)
  Original source SHA-256: 9ae0766d4ed153a20981c4590a58cd8ada560fd8d79192389a5759ccb6ea619e
- wetlab results/transfection_effeciency/Or35a+ORCO/GREEN_1.webp (pixel-identical image)
  Original source SHA-256: f901e54a496bc62ac39f3a5c4c718e2164f66c8d8ee705e5f82099396bf6160a
- wetlab results/transfection_effeciency/Or35a+ORCO/GREEN_2.webp (pixel-identical image)
  Original source SHA-256: 6b41f4ab42c60708e835e45667dbd5f933adb57c78981c69e9ee1fb89aa8eb16
- wetlab results/transfection_effeciency/Or35a+ORCO/MERGE_1.webp (pixel-identical image)
  Original source SHA-256: df875215e28c46672c3072b6140250087ebcd3b1cacebca9f6f27c81ec8e9869
- wetlab results/transfection_effeciency/Or35a+ORCO/RED_1.webp (pixel-identical image)
  Original source SHA-256: 3a69d932dc2abf2a401d9983b7e352d2d4291d98d68e14f5454cfda01721c342
- wetlab results/transfection_effeciency/Or35a+ORCO/RED_2.webp (pixel-identical image)
  Original source SHA-256: a516b8afdfb474a4fa76ecd1a751e454a6274adb26edbd3765de978f608f760a
- wetlab results/transfection_effeciency/Or42a+ORCO/BLUE_1.webp (pixel-identical image)
  Original source SHA-256: f2253218b344a636e4125dd5a9d37de124138e8590f29659b524e8b1f6b023b7
- wetlab results/transfection_effeciency/Or42a+ORCO/BLUE_2.webp (pixel-identical image)
  Original source SHA-256: 16f929507f45508cbaf38fc17e42c9d71e76b4a0a19afd322f69481f8ae35fab
- wetlab results/transfection_effeciency/Or42a+ORCO/BRIGHTFIELD_1.webp (pixel-identical image)
  Original source SHA-256: 75919f86c09a042ed3986493ebbe7e89d7f225fe5f97784e88971c21738a0ba6
- wetlab results/transfection_effeciency/Or42a+ORCO/BRIGHTFIELD_2.webp (pixel-identical image)
  Original source SHA-256: 68892cead2d7a7d8aab38ad13ad54051e1f33c0a0d53971cf24b59ea3ddab94c
- wetlab results/transfection_effeciency/Or42a+ORCO/GREEN_1.webp (pixel-identical image)
  Original source SHA-256: 8e49c96323459246d964175417a806adbb5912d7b9202e564ac2a6e72bc7a26c
- wetlab results/transfection_effeciency/Or42a+ORCO/GREEN_2.webp (pixel-identical image)
  Original source SHA-256: 5954e61022ed39303269f43d30fcdd03c97adccc4a612ac622337f67951e1025
- wetlab results/transfection_effeciency/Or42a+ORCO/MERGE_2.webp (pixel-identical image)
  Original source SHA-256: 9b120c1a4c8ebf3debd83aed531ed1aa01c74146ee0c9346ceccf3b5e8c80dd1
- wetlab results/transfection_effeciency/Or42a+ORCO/RED_1.webp (pixel-identical image)
  Original source SHA-256: 0da9cd454d5b16e2205ce7a9ab10dee035aefbf3e1427aee08ff2d91d0ff9108
- wetlab results/transfection_effeciency/Or42a+ORCO/RED_2.webp (pixel-identical image)
  Original source SHA-256: 9db35798471eae68e5d48fc80f4bfc507084bd82e80cf61d2ebaa37f42310990
- wetlab results/transfection_effeciency/Or59b+ORCO/BLUE_1.webp (pixel-identical image)
  Original source SHA-256: 69eaa23a7bc685b4ea14b3ac6e14f23d8a3b069f0d0145e15feb4e52111d3762
- wetlab results/transfection_effeciency/Or59b+ORCO/BLUE_2.webp (pixel-identical image)
  Original source SHA-256: eb3d38050087d32b2f94bae689b6c6e8ff664b23f6877adc3b410a6fdf0054ff
- wetlab results/transfection_effeciency/Or59b+ORCO/BRIGHTFIELD_1.webp (pixel-identical image)
  Original source SHA-256: dfad3decd9653d5a2d83c6bf8f77bccb37cd40a438b3f2f90e90f9eb030ae0ed
- wetlab results/transfection_effeciency/Or59b+ORCO/BRIGHTFIELD_2.webp (pixel-identical image)

Original source SHA-256: fa9708b991e8b5cc63df0e744f12da157093fc595fe832e3a4e460809bf2a659

- wetlab results/transfection_effeciency/Or59b+ORCO/GREEN_1.webp (pixel-identical image)
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- wetlab results/transfection_effeciency/Or59b+ORCO/GREEN_2.webp (pixel-identical image)
  Original source SHA-256: bbf718c0a6fbc66cb98142e8376e98a977483cda53914de1288c3cae9ddbfa75
- wetlab results/transfection_effeciency/Or59b+ORCO/MERGE_1.webp (pixel-identical image)
  Original source SHA-256: 5a01dbdc8dd44afc45b27015c0da39249396d8c787c1e84219c071245043fc3a
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  Original source SHA-256: 113adfe52e32d5ff579df43ce625883ebaa313f25a9fd7b24bbbe454202e95ae
- wetlab results/transfection_effeciency/Or59b+ORCO/RED_2.webp (pixel-identical image)
  Original source SHA-256: b499749a0c102fea25daeadafc12d4cc479d66a87ca3da1516c27553b33ad056
- wetlab results/transfection_effeciency/Or67a+ORCO/BLUE_1.webp (pixel-identical image)
  Original source SHA-256: 85a7b1a7e66ca2751af4f7fcdeb39dca08642217b60dea64f2bbc3736cf99b1b
- wetlab results/transfection_effeciency/Or67a+ORCO/BLUE_2.webp (pixel-identical image)
  Original source SHA-256: 2bf999768f32496d61bde5ad6a4d0cd8c26a8607a3aa4c63b3de03f0f8de3efc
- wetlab results/transfection_effeciency/Or67a+ORCO/BRIGHTFIELD_1.webp (pixel-identical image)
  Original source SHA-256: d58e2953854d2822dc04b2348b3d4aace0c12592674f55eec1f44107033a36a6
- wetlab results/transfection_effeciency/Or67a+ORCO/BRIGHTFIELD_2.webp (pixel-identical image)
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- wetlab results/transfection_effeciency/Or67b+ORCO/BLUE_1.webp (pixel-identical image)
  Original source SHA-256: 5237865b75f77ef744527e264a8e4a55e9c21a2edaf108f8f05f8ada1bb55bf4
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- wetlab results/transfection_effeciency/Or67b+ORCO/BRIGHTFIELD_1.webp (pixel-identical image)
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- wetlab results/transfection_effeciency/Or67b+ORCO/GREEN_2.webp (pixel-identical image)
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- wetlab results/transfection_effeciency/Or67b+ORCO/RED_1.webp (pixel-identical image)
  Original source SHA-256: 71c3d657152c33709e1b9cc795b810043cbc933ad50eec47616572b73274d939
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  Original source SHA-256: 25c46df2eb9a07405ba2edbfdeeb002c754377fe7bc65ead184e397dbdc1f197
- wetlab results/transfection_effeciency/Or7a+ORCO/BLUE_1.webp (pixel-identical image)
  Original source SHA-256: 47e03587747a5d72253d5de803eeee5e2ac35b57e0f0077f90e32e0e996888f7
- wetlab results/transfection_effeciency/Or7a+ORCO/BLUE_2.webp (pixel-identical image)
  Original source SHA-256: ea0277630e1163e065340da5b2691b9cc660557320e01156c899f029214264c7
- wetlab results/transfection_effeciency/Or7a+ORCO/BRIGHTFIELD_1.webp (pixel-identical image)
  Original source SHA-256: 5a2379148333fbcf104b5f29aef95e65673b9a8296a75e7fb0cc3cfbc7a05369
- wetlab results/transfection_effeciency/Or7a+ORCO/BRIGHTFIELD_2.webp (pixel-identical image)
  Original source SHA-256: addc419ae9b65b518e25fb59df0a0df7860b7255ecedc86e9bab399ba75e8874
- wetlab results/transfection_effeciency/Or7a+ORCO/GREEN_1.webp (pixel-identical image)
  Original source SHA-256: 8b4a62f98eb13817ecf981038256ce69122ef526f9e60ec0fdd7f3e1cb86079b
- wetlab results/transfection_effeciency/Or7a+ORCO/GREEN_2.webp (pixel-identical image)
  Original source SHA-256: 4b626386d15eaf69ecd47e7bd3fd548044e1e30d1272bcf47e1aeb02072b2849
- wetlab results/transfection_effeciency/Or7a+ORCO/MERGE_1.webp (pixel-identical image)
  Original source SHA-256: af5b262e7604491f079ab2430ab9f1e261e12daef96f4be4610906ef0309a09e
- wetlab results/transfection_effeciency/Or7a+ORCO/RED_1.webp (pixel-identical image)
  Original source SHA-256: 804d9c338af17f03e428139d686fc93a6f17f625b93aa6e7259baf1f6b0e1f27
- wetlab results/transfection_effeciency/Or7a+ORCO/RED_2.webp (pixel-identical image)
  Original source SHA-256: df2ec7cd3aa80aa8cdfe62654d90dd36b04ab3a2850ac7eedb30183373f71f72
- wetlab results/transfection_effeciency/Or85b+ORCO/BLUE_1.webp (pixel-identical image)
  Original source SHA-256: f03ce136bc84b5d0d9edf2d38bb66d00c81d5a68ce5d0a6d14e8814ea0f99740
- wetlab results/transfection_effeciency/Or85b+ORCO/BRIGHTFIELD_1.webp (pixel-identical image)
  Original source SHA-256: 986efd8f484332a7ce5928fdd0cd6286c4c7ee2814364e7e040e2334aefe5730
- wetlab results/transfection_effeciency/Or85b+ORCO/GREEN_1.webp (pixel-identical image)
  Original source SHA-256: ec920b5275dab96b68915b64757b55f5949ae4374e4be0da3315f232ba9fbc5f
- wetlab results/transfection_effeciency/Or85b+ORCO/MERGE_1.webp (pixel-identical image)
  Original source SHA-256: e8bc2a97e756579456f35849f51e399fd16e83fa73f398c7e1b626687314e618
- wetlab results/transfection_effeciency/Or85b+ORCO/RED_1.webp (pixel-identical image)
  Original source SHA-256: 6240ffa2dae9b7ef57a43fe26c34255a8c1291c87b8ff9379524a15cadcaf693
- wetlab results/transfection_effeciency/Or98a+ORCO/BLUE_1.webp (pixel-identical image)

Original source SHA-256: 6cb8b39eda5a1dad9eea1ada3a22550208b7ad5d17a3f2641ac99c6f48d3dce0

- wetlab results/transfection_effeciency/Or98a+ORCO/BLUE_2.webp (pixel-identical image)
  Original source SHA-256: c8956b69e6f169650af4d1c8efc62bccf9dca160b4a832ce7d65f92f80552b5a
- wetlab results/transfection_effeciency/Or98a+ORCO/BRIGHTFIELD_1.webp (pixel-identical image)
  Original source SHA-256: 6a00c7affff49bac8ca4d010bc68c54ebaad2829184427144da7fd900ad79ae6
- wetlab results/transfection_effeciency/Or98a+ORCO/BRIGHTFIELD_2.webp (pixel-identical image)
  Original source SHA-256: 7bd5c04e694a761e1f17ebcce97aa0114da38aca70426e6ff629c3c700f0009a
- wetlab results/transfection_effeciency/Or98a+ORCO/GREEN_1.webp (pixel-identical image)
  Original source SHA-256: 1d56e2b4c0bb801cccba385a99e150e0f28944d12f6935ed47de43a76ab92ab2
- wetlab results/transfection_effeciency/Or98a+ORCO/GREEN_2.webp (pixel-identical image)
  Original source SHA-256: 07c028c2d6918c212a15c0d498e5f003544a992bd5ac6ed569611b71abb21ee5
- wetlab results/transfection_effeciency/Or98a+ORCO/MERGE_2.webp (pixel-identical image)
  Original source SHA-256: 870d53e23a17dd3df8903abb5cb0733ba2682d4b8cf08f2920268ac43f96a0cb
- wetlab results/transfection_effeciency/Or98a+ORCO/RED_1.webp (pixel-identical image)
  Original source SHA-256: 370c2fe6198f4f778ac3d6b45c758b4396189d71fea4fc9096d27af01ecfd590
- wetlab results/transfection_effeciency/Or98a+ORCO/RED_2.webp (pixel-identical image)
  Original source SHA-256: 530108e6041d7802659b357a4c02e528f72773d3e39d2dfdcea9ef3562a1b4df
- wetlab results/transfection_effeciency/ORCO only/BLUE_1.webp (pixel-identical image)
  Original source SHA-256: 268d1ef42e625cc146e0e1e459132917ea9a1f9a631b7d898bbcf6b5c731cf39
- wetlab results/transfection_effeciency/ORCO only/BLUE_2.webp (pixel-identical image)
  Original source SHA-256: 45e8b468bd0dbe260d17a889eca8c89c3f3e177136f282972e571289d5988206
- wetlab results/transfection_effeciency/ORCO only/BLUE_3.webp (pixel-identical image)
  Original source SHA-256: 2f0bc11ed320598a00336bf207eea12616208c1d6ca0f65e01a3abcaacbbdd38
- wetlab results/transfection_effeciency/ORCO only/BRIGHTFIELD_1.webp (pixel-identical image)
  Original source SHA-256: 58714c5c57d79fad74ab8ea95e5c326716ceb3a48733eb41f5221f984d45b76f
- wetlab results/transfection_effeciency/ORCO only/BRIGHTFIELD_2.webp (pixel-identical image)
  Original source SHA-256: 52c493be6b1fb78240f9d4d362aa1d77ca8ac29be2ce1011f76b03b962bbddde
- wetlab results/transfection_effeciency/ORCO only/BRIGHTFIELD_3.webp (pixel-identical image)
  Original source SHA-256: 460738138d83d291513b44fa39dd3c7d2a218e75dca27bbd635841384be00356
- wetlab results/transfection_effeciency/ORCO only/GREEN_1.webp (pixel-identical image)
  Original source SHA-256: 237aa3e3dbbfc3916e95b39b8a33031aa39e487b7a23a6b382320b8ae712a7bd
- wetlab results/transfection_effeciency/ORCO only/GREEN_2.webp (pixel-identical image)
  Original source SHA-256: d0208afa81f3f4948e274f4096f9d080d960c272d9034b96181244e374a8e98c
- wetlab results/transfection_effeciency/ORCO only/GREEN_3.webp (pixel-identical image)
  Original source SHA-256: a1ff79211329ae8e535a0a27d5a6a08917317b977b1fdf1b3fccd2b0d916cea4
- wetlab results/transfection_effeciency/ORCO only/MERGE_1.webp (pixel-identical image)
  Original source SHA-256: 7b364582972fc0ed5a686bc6f588956627a602598c5f9161fb24bad8d466f666
- wetlab results/transfection_effeciency/ORCO only/RED_1.webp (pixel-identical image)

Original source SHA-256: 3b0a9015fee54cf41d0766899e0987655f505a580d8fa89b7b057a33d2e7a3a4

- wetlab results/transfection_effeciency/ORCO only/RED_2.webp (pixel-identical image)
  Original source SHA-256: 27f846c68feb731045240fc22ea245ed109eb2c8e1f61fefcfe47ac75bfa7a03
- wetlab results/transfection_effeciency/ORCO only/RED_3.webp (pixel-identical image)
  Original source SHA-256: 87495f4417ec2d3b8df232839e76c44350bbd1f8a33c15584c8c3a76a5540301
- wetlab results/transfection_effeciency/transfect.xlsx (archive availability)
  Original source SHA-256: 2fac5e841f53df16c35e41ff5e02b71eea26387dc2aa36ed074e83d1c875d45b