

Team sensors

| Week | Date | Jobs |
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| 29 | 21.07.2017 | Goldengate of pHLourin2 synthesis into lvl0 backbone Transformation of pHLourin2 lvl0 construct into DH5α <i>E.coli</i> competent cells. |
| | 23.07.2017 | Picking and inoculating of colonies from pHLourin2 lvl0 plate. |
| 30 | 24.07.2017 | Miniprep and nanodrop pHLourin2 lvl0 colonies. |
| | 25.07.2017 | Test digestion with Drai of pHLourin2 lvl0 colonies Retransformation of part 4a-pts1. |
| | 26.07.2017 | Goldengate of pHLourin2 lvl0 with promoter 0017 and GFP-uracil-dropout-lvl1- cassette, cytosolic as well as peroxisomal. Inoculation of part 4a-pts1. |
| | 27.07.2017 | Repetition of goldengate of pHLourin2 lvl0 with promoter 0017 and GFP-uracil-dropout-lvl1- cassette cytosolic as well as peroxisomal. Miniprep and nanodrop of part 4a-pts1. |
| | 28.07.2017 | Transformation of pHLourin2-uracil lvl1 construct. Goldengate of pHLourin2 lvl0 with promoter 0017 and GFP-leucine-dropout-lvl1- cassette, cytosolic as well as peroxisomal. |
| 31 | 31.07.2017 | Transformation of pHLourin2-leucine lvl1 construct construct into DH5α <i>E.coli</i> competent cells. Inoculation of pHLourin2_uracil_cytosolic/peroxisomal lvl1 construct. |
| | 01.08.2017 | Miniprep and nanodrop of pHLourin2_uracil_cytosol/peroxisomal lvl1 construct. Test digestion of pHLourin2_uracil_cytosolic/peroxisomal lvl1 construct with Ndel and Mfel. Inoculation of pHLourin2_leucine_cytosolic/peroxisomal. |
| | 02.08.2017 | Miniprep and nanodrop of pHLourin2_leucine_cytosol/peroxisomal lvl1 construct. Repetition of test digestion of pHLourin2_uracil_cytosol/peroxisomal lvl1 construct. Test digestion of pHLourin2_leucine_cytosolic/peroxisomal lvl1 construct with Mfel.. |
| | 04.08.2017 | Test digestion of pHLourin2-leucine-cytosolic/peroxisomal lvl1 construct with Ndel replating of positive colonies |
| 32 | 08.08.2017 | Inoculation of replated pHLourin2_leucine_cytosol/peroxisomal lvl1 construct colonies. Goldengate of pHLourin2-cytosolic/peroxisomal-Pex11-mRuby-uracil lvl2 construct with GFP-uracil-dropout lvl2. |

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| | 09.08.2017 | Miniprep and nanodrop of pHlourin2-leucine-cytosolic/peroxisomal lvl1 constructs. Colony pcr of pHlourin2-leucine-cytosolic/peroxisomal lvl1. Goldengate and transformation of pHlourin2-leucine/uracil-cytosolic/peroxisomal lvl1 constructs with other connector parts. |
| | 10.08.2017 | colony pcr of pHlourin2-leucine/uracil-cytosolic/peroxisomal lvl1 constructs with other connector parts. Overnight test digestion of pHl-leucine-cytosolic/peroxisomal lvl1 constructs. |
| | 11.08.2017 | Test digestion of pHl-leucine-cytosolic/peroxisomal lvl1 constructs with NdeI and Pvul. Test digestion of pHlourin2-leucine/uracil-cytosolic/peroxisomal lvl1 constructs with other connector parts. Test digestion of Pex11_leucine with Pvull and EcoRI. |
| 33 | 14.08.2017 | Goldengate and transformation of Pex11-mRuby-leucine. |
| | 15.08.2017 | Inoculation of Pex11-mRuby-leucine. Colony pcr of pex11-mRuby-leucine. |
| | 16.08.2017 | Miniprep and nanodrop of pex11-mRuby-leucine cultures. |
| | 17.08.2017 | Yeast transformation of pHlourin2-leucine-cytosolic lvl1. Replating of WT, Pex5 deficient, Pex7 deficient strains. Test digestion of Pex11-mRuby-leucine constructs with Pvul and EcoRV. Test digestion of Pex11-mRuby-leucine constructs with EcoRI and EcoRV. |
| 34 | 24.08.2017 | Goldengate and transformation of Pex11-mRuby-leucine. Goldengate and transformation of pHlourin2-leucine-cytosolic. Colony pcr of pHlourin2-uracil-cytosolic/peroxisomal lvl1 constructs Yeast transformation of pHlourin2-uracil-cytosolic/peroxisomal constructs |
| | 25.08.2017 | Miniprep and nanodrop of pHl-leucine-cytosolic/peroxisomal. Test digestion with NcoI |
| 35 | 28.08.2017 | Goldengate and transformation of Pex11-mRuby-uracil construct. Colony pcr of transformed yeast (24.08). Digestion and purification of Leucine and uracil lvl1 dropouts |
| | 29.08.2017 | Colony pcr of Yeast colonies with pHlourin2-uracil-cytosolic/peroxisomal Test digestion of pHlourin2-leucine-peroxisomal constructs |

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| | | Inoculation of Pex11-mRuby-uracil and lvl1 dropout-cassettes |
| | 30.08.2017 | Miniprep of Pex11-mRuby-uracil and lvl2 dropout-cassettes. Test digestion of all pHlourin2-leucine/uracil-peroxisomal/cytosolic lvl1 constructs. Goldengate of pHlourin2-leucine/uracil-peroxisomal and pHlourin2-leucine/uracil-cytosolic |
| | 01.09.2017 | Transformation of pex11-mRuby-uracil, pHlourin2-leucine/uracil-peroxisomal/cytosolic and pHlourin2-leucine/uracil-peroxisomal. Yeast transformation of pHlourin2-leucine/uracil-cytosolic. |
| 36 | 04.09.2017 | Colony pcr of pex11-mRuby-uracil, pHlourin2-leucine/uracil-peroxisomal/cytosolic and pHlourin2-leucine/uracil-peroxisomal. |
| | 05.09.2017 | Colony pcr of pHlourin2-leucine/uracil-cytosolic. Test digestion of Pex11-mRuby-retraffo |
| | 06.09.2017 | Inoculation of Yeast pHlourin2-leucine/uracil-cytosolic WT strain, WT, and pex5 deficient strain. Yeast transformation of pHlourin2-leucine/uracil-peroxisomal. Goldengate and transformation of Pex11-mRuby-uracil with pHlourin2-leucine/uracil-peroxisomal. |
| | 07.09.2017 | Miniprep of pHlourin2_leucine/uracil_cytosolic Colony pcr of pHlourin2-leucine/uracil-cytosolic and Pex11-uracil. Retransformation of toolbox parts. |
| | 08.09.2017 | Miniprep of toolbox parts. OD measurements and microscopy of Yeast WT strain, pex5 deficient strain and pHlourin2-leucine/uracil-cytosolic WT strain. Replating of yeast strains. |
| 37 | 11.09.2017 | Colony pcr of pHlourin2-peroxisomal-Pex11-Mrubby-uracil lvl2 construct. Test digestion of Pex11-mRuby-uracil. Inoculation of pHlourin2-leucine/uracil-peroxisomal yeast strains. Goldengate and |
| | 12.09.2017 | Digestion of GFP-uracil/leucine lvl1 cassette dropout. Goldengate and transformation of pHlourin2-leucine/uracil-cytosolic/peroxisomal-++ (with strong promotores) |
| | 13.09.2017 | Colony pcr of Pex11-mRuby-uracil and pHlourin2-leucine/uracil-cytosolic/peroxisomal-++ Inoculation of pHlourin2-leucine/uracil-cytosolic/peroxisomal-++. Goldengate and transformation of pHlourin2-leucine/uracil-cytosolic/peroxisomal-Pex11-mRuby constructs. Yeast transformation of pHlourin2-leucine/uracil-cytosolic/peroxisomal lvl1 constructs. |
| | 14.09.2017 | Colony pcr of Pex11-mRuby-uracil and pHlourin2-leucine/uracil-cytosolic/peroxisomal-++ Glycerol stocks, miniprep and nanodrop of pHlourin2-leucine/uracil-cytosolic/peroxisomal-++ constructs. |

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| | 15.09.2017 | Goldengate and transformation of Pex11-mRuby-uracil/leucine. Test digestion and yeast transformation of pHlourin2-uracil-cytosolic/peroxisomal-++ |
| 38 | 18.09.2017 | Colony pcr of pHlourin2-uracil-cytosolic/peroxisomal-++ yeast colonies. Digestion of GFP-dropout-uracil lvi2 cassette. Inoculation of pHlourin2-uracil-cytosolic/peroxisomal-++ yeast colonies. |
| | 19.09.2017 | Test digestion of Pex11-mRuby-leucine. Colony pcr of yeast. Making competent cells. Inoculation of yeast colonies for microscopy. Yeast transformation of pHlourin2.uracil-cytosolic/peroxisomal into Pex5 deficient competent cells. |
| | 20.09.2017 | OD measurement of pHlourin2-uracil-cytosolic/peroxisomal-++ , pHlourin2-uracil-cytosolic strains, WT and Pex5 deficient strains. Microscopy of WT and Pex5 deficient strains. Colony pcr of pHlourin2.uracil-cytosolic/peroxisomal into Pex5 colonies. |
| | 21.09.2017 | OD measurement and microscopy of pHL constructs colony PCR level 2 constructs |
| | 22.09.2017 | Prep pH level1 strong promotor test digests pH strong promotor Golden Gates with level 2 constructs |
| 39 | 25.09.2017 | yeast colony PCR level 2 constructs |
| | 26.09.2017 | culture of right tested yeasts Golden Gates Prep and test digest pex11_ura |
| | 27.09.2017 | transformation pex13_level2, transformation pex13_level1 microscopy and OD measurement pH colony pcr pex11_ura test digest pH-cyt |
| | 28.09.2017 | colony pcr level 2 constructs overnight culture level 2 constructs Prep and digest of toolbox parts OD measurement and microscopy pH |
| | 29.09.2017 | OD measurement and microscopy pH Prep and digest of level 2 constructs yeast transformation level 2 pH_per/cyt |
| 40 | 2.10.2017 | sequencing roGFP2 level0 , Pex11_leu/ura Golden Gate rogfp level 1 and E.coli transformation OD measurement and microscopy pHL level 2 |

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| | 4.10.2017 | colony PCR yeast (all constructs) |
| | 6.10.2017 | Prep roGFP level 1 constructs and test digest of them site directed mutagenesis with pH level 0 transformation roGFP level 0 |
| 41 | 9.10.2017 | roGFP level 1/2 transformation digest level1/2 dropout yeast transformation roGFP level 1 |
| | 10.10.2017 | Prep and test digest level 1 ro GFP yeast transformation level 1 roGFP Golden Gate with pex13 roGFP biobrick transformation level 0 roGFP |
| | 11.10.2017 | Biobrick assembly level 1/2 roGFP and level 1 roGFP-_leu test digest/Preps dropouts cpcr yeasts |
| | 12.10.2017 | Test digest/Preps: Biobricks, sdm, leu_pHL sequencing sdm and biobricks |
| | 13.10.2017 | Prep/test digest new biobricks |
| 42 | 16.10.2017 | Golden Gate: pH level 1 Biobricks: pH level 0, roGFP level 0/2 sequencing biobricks and sdm yeast cotransformation with bacteriorhodopsin OD measurement and microscopy pH |
| | 17.10.2017 | Biobrick assembly Golden Gates pH level 1 biobrick and roGFP-Leu Transformation biobricks and roGFP lvl 2 Plate reader introduction |
| | 18.10.2017 | colony PCR roGFP-Leu Calibration in vivo using nigericin pH OD measurement and microscopy pH |
| | 19.10.2017 | OD measurement and microscopy pH Calibration of pH with nigericin to different pH values colony PCR biobricks test digest pH Biobrick |
| | 20.10.2017 | Prep and test digest Biobricks OD measurement and microscopy pH Calibration of pH with nigericin to different pH values |
| | 21.10.2017 | cotransformation with nootkatone and our sensors into yeast |

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| | 22.10.2017 | OD measurement and microscopy pH colony PCR yeast cotransformation |
| 44 | 23.10.2017 | OD measurement and microscopy pH cotransformation with nootkatone and our sensors into |
| | 24.10.2017 | sequencing biobricks roGFP2 level 2 protein extraction and in vitro calibration of roGFP using the Infinite M2000 pro plate reader |
| | 25.10.2017 | protein extraction and in vitro calibration of pH using the Infinite M2000 pro plate reader Biobricks sequencing and Prep pH OD measurement and microscopy pH/roGFP |
| | 26.10.2017 | protein extraction and in vitro calibration of pH and roGFP using the Infinite M2000 pro plate reader Biobricks sequencing and Prep pH OD measurement and microscopy pH |
| | 27.10.2017 | OD measurement protein extraction and in vitro calibration of pH and roGFP using the Infinite M2000 pro plate reader, Measurement of living peroxisomes/ cytosol with both sensors sequencing all biobricks microscopy roGFP level 2 |