

Resource Summary Report

Generated by [RRID](#) on Sep 2, 2026

[pMB413a](#)

RRID:Addgene_20058

Type: Plasmid

Proper Citation

RRID:Addgene_20058

Plasmid Information

URL: <http://www.addgene.org/20058>

Proper Citation: RRID:Addgene_20058

Insert Name: Sperm Whale Myoglobin

Organism: Physeter macrocephalus (Sperm Whale)

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:3321062](#)

Vector Backbone Description: Backbone Size:2646; Vector Backbone:pUC19; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pMB413a

Record Creation Time: 20220422T222049+0000

Record Last Update: 20260902T043615+0000

Ratings and Alerts

No rating or validation information has been found for pMB413a.

No alerts have been found for pMB413a.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Wang Y, et al. (2023) Hydrogel oxygen reservoirs increase functional integration of neural stem cell grafts by meeting metabolic demands. *Nature communications*, 14(1), 457.

Penjweini R, et al. (2022) Intracellular imaging of metmyoglobin and oxygen using new dual purpose probe EYFP-Myoglobin-mCherry. *Journal of biophotonics*, 15(3), e202100166.

Alspaugh G, et al. (2021) Developing Analysis Protocols for Monitoring Intracellular Oxygenation Using Fluorescence Lifetime Imaging of Myoglobin-mCherry. *Methods in molecular biology* (Clifton, N.J.), 2304, 315.

Penjweini R, et al. (2020) Single cell-based fluorescence lifetime imaging of intracellular oxygenation and metabolism. *Redox biology*, 34, 101549.

Sethi R, et al. (2020) Stabilization of elongated polyglutamine tracts by a helical peptide derived from N-terminal huntingtin. *IUBMB life*, 72(7), 1528.

Penjweini R, et al. (2018) Intracellular oxygen mapping using a myoglobin-mCherry probe with fluorescence lifetime imaging. *Journal of biomedical optics*, 23(10), 1.