

# UBA1 Knockout THP-1 Cell Line for the study of VEXAS (ATCC parent)

**These parental THP-1 cell lines are control and doxycycline-induced conditional knock-outs of UBA1, with the additional reconstitution of either wild-type UBA1 or Met41Val UBA1**

These cell lines were constructed using a THP1, human monocyte, model of VEXAS utilizing a conditional Cas9-mediated knock-out of endogenous UBA1 in the background of constitutive lentivirally incorporated wild-type (UBA1WT) or VEXAS disease associated UBA1 (UBA1M41V). When induced, the UBA1M41V line generated vacuoles, showed poly-ubiquitin defects, and produced an inflammatory response.

## References

1. Magaziner et al. , <https://www.sciencedirect.com/science/article/pii/S0006497124029343>

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