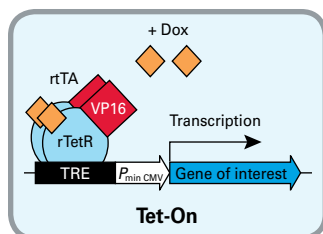


# 1<sup>st</sup> and 2<sup>nd</sup> Generation Tet Systems and Vectors Selection Guide

This is a selection guide to our first and second generation Tet systems and vectors. **If you are upgrading your system or purchasing a Tet system for the first time, we recommend choosing a [Tet-On 3G system](#)**, which (compared to the systems listed below) offers significantly reduced basal expression and increased sensitivity to doxycycline, a tetracycline analogue. The Tet Systems were developed in the laboratories of Hermann Bujard, Manfred Gossen, and Wolfgang Hillen.



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## First Generation Tet-On® & Tet-Off® Vectors

The original tetracycline-inducible systems.

Cat. No.	Product Name	Description
631018	pTet-On Vector	Regulator vector expressing the original rtTA transactivator.
631017	pTet-Off Vector	Regulator vector expressing the original tTA transactivator.
631008	pTRE2 Vector	Response vectors containing the original P <sub>TRE</sub> promoter.
631013	pTRE2pur Vector	
631014	pTRE2hyg Vector	
631011	pTet-tTS Vector	Expresses a transcriptional silencer to inhibit basal expression from 1 <sup>st</sup> generation Tet-On vectors (not needed for 2 <sup>nd</sup> and 3 <sup>rd</sup> generation vectors and systems.)

## Second Generation Tet-On Advanced & Tet-Off Advanced Systems

The Advanced systems were optimized for higher and more stable expression levels, and to minimize off-target effects and reduce toxicity.

Cat. No.	Product Name	Description
630930	Tet-On Advanced Inducible Gene Expression System	Complete 2 <sup>nd</sup> generation systems.
630934	Tet-Off Advanced Inducible Gene Expression System	

## Second Generation Tet-On Advanced & Tet-Off Advanced Vectors

Cat. No.	Product Name	Description
631069	pTet-On Advanced Vector	These vectors express the 2 <sup>nd</sup> generation transactivator.
631070	pTet-Off Advanced Vector	
631112	Tet-On Advanced IRES Fluorescent Vector Set	Tetracycline inducible expression with fluorescent reporters co-expressed from both regulator and response vectors.
631113	Tet-Off Advanced IRES Fluorescent Vector Set	
631059	pTRE-Tight Vector	Express your gene from a P <sub>Tight</sub> promoter.
631114	pTRE-Dual1 Vector	Simultaneous inducible expression of two genes from a single transcript via an IRES (internal ribosome entry site.)
631115	pTRE-Cycle1 Vector	One protein of interest is subject to both tetracycline inducible expression and ProteoTuner™-controlled protein degradation. A second protein of interest or a fluorescent protein (mCherry or ZsGreen1) is subject only to tetracycline inducible expression.
631116	pTRE-Cycle2 Vector	
631117	pTRE-Cycle3 Vector	
631068	pTRE-Tight-BI Vector	A bidirectional P <sub>Tight</sub> promoter allows for simultaneous inducible expression of two genes of interest.
631065	pTRE-Tight-BI-DsRed-Express Vector	Inducible expression of your gene of interest and a fluorescent protein from a bidirectional TRE promoter.
631066	pTRE-Tight-BI-AcGFP1 Vector	
631067	pTRE-Tight-BI-ZsGreen1 Vector	