Features	Cell types		Cocktails	Efficiency	Reference
	From	To			
GMT-based cocktail	CF, TTF	MYH6-GFP+	**GMT**	~ 20%	Ieda et al., 2010
microRNA	CF, MEF	Beating cells	**GMT,** miR-133	7 fold more	Muraoka et al., 2014
	HCF	TNNT2+	**GMT,** MESP1, MYOCD, miR-133	23-27%	
Chemical compound	CF	MYH6-GFP+	**GMT**	~ 30%	Mohamed et al., 2017
	HCF	TNNT2-GCaMP5+	**GMT**, MYOCD, ESRRG, MESP1, ZFPM2	~ 12%	
	MEF, TTF	Beating cells	**GMT** or GHMT	100 fold	Yamakawa et al., 2015
	TTF	Beating cells	**GMT** or GHMT	4 fold	Muraoka et al., 2019
Polycistronic puro selection	CF	Beating cells	polycistronic **MGT**	10 fold	Wang et al., 2014
Optimized GHMT-based cocktail	CFs,TTFs	MYH6-GFP+/TNNT2+	GHMT	5-20%	Song et al., 2012
	MEF	Beating cells	**GHMT** Akt1	50.0%	Zhou et al., 2015
	CF, TTF			~0.8%	
	MEF, CF, TTF	MYH6-GFP+/TNNT2+ Beating cells	**GHMT,** Akt1, PHF7	> 20% ~2 fold	Garry et al., 2021
	HCF	MYH6-GFP+/TNNT2+	**GHMT**, Myocd, PHF7	~ 3%	
Chamber-specific subtype	MEF, TTF	Sarcomere+/HCN4-GFP+ Sarcomere+/HCN4-GFP-/MYL2+ Sarcomere+/HCN4-GFP-/NPPA+	**GHMT**	1% x ~32% 1% x ~22% 1% x ~35%	Nam et al., 2014
	MEF	MYL7+/TNNI3+ MYL2+/TNNI3+ Sarcomere+, beating cells	Polycistronic **M-G-T-H**	~26% ~16% ~5-6 fold	Zhang et al., 2019, 2021
Human Fibroblasts	H9F	MYH6-mCherry+/TNNT2+	GMT, ESRRG, MESP1, MYOCD, ZFPM2 (**7F**)	13.0% ± 9.3%	Fu et al., 2013
	HCF, HDF	ACTN2+/TNNT2+		1-4%	
	HFF, AHCF, AHDF	TNNT2+	GHT, Myocd, miR-1, miR-133 (**6F**)	~10-35%	Nam et al., 2013
	HCF, HDF	ACTN2+ or TNNT2+	GMT, Mesp1, Myocd (**GMTMM**)	~ 5%	Wada et al., 2013
	H9F, HCF	TNNT2+	Polycistronic hMGT + miR-133 **(MGT133**)	40-60%	Garbutt et al., 2020
MicroRNA combo	MEF, CF	MYH6-CFP+	miR-1, miR-133, miR-208, miR-499 (**miRcombo**)	~13-27%	Jayawardena et al., 2012
Chemical only approach	MEF, TTF	ACTN2+ or MYH6+	small-molecule combination **CRFVPT**	~10-15%	Fu et al., 2015
	HFF	TNNT2+ cells	9 chemical compounds (**9C**)	6.6 ± 0.4%	Cao et al., 2016
	HLF			5.5%	