BioArk Technologies | Vector Catalog
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LABORATORY VECTORS CATALOG

High-Quality Vector Stock • Shipped from Rockville, MD • Trusted OEM Supplier

Structured Function Classes — Expression, Genome Editing & RNAi Vector Platforms

	Overexpression	Inducible	CRISPR	RNAi	Related Services
Non-Viral Backbone (code)	OverExp Non-Viral EMS/EMT	Inducible Non-Viral IMS/IMT	CRISPR Non-Viral COS/COT	RNAi Non-Viral SHS/SHT	Plasmid, Stable Cell line
AAV Backbone (code)	OverExp AAV EMA/EMB	Inducible AAV IMS/IMT	CRISPR AAV COA/COB	RNAi AAV SHA/SHB	Plasmid, Virus, Cell Line
Lentiviral Backbone (code)	OverExp Lentiviral EML/EMM	Inducible Lentiviral IML/IMM	CRISPR Lentiviral COL/COM	RNAi Lentiviral SHL/SHM	Plasmid, Virus, Cell Line

Modular Vector Features — Promoters, Tags, Reporters, Selection Markers & Antibiotic Resistance

Promoter	Tag	Fluorescence Protein	Selection Marker	Antibiotics
Universal	3×FLAG	EGFP	Hygromycin	Ampicillin (AmpR)
Neuron-specific Promoter	MycDDK	Turbo GFP	Neomycin	Kanamycin (KanR)
Liver Specific	HA	miniGFP	Puromycin	Chloramphenicol (CmR)
Muscle/Heart Specific	His	mCherry	Blasticidin (BSD)	
Retina Specific	MBP	DsRed		
Endothelial Specific		tdTomato		
Lung Specific		BFP		
		Luciferase		
		mKate2		
		mCerulean		

Broad Gene Coverage — Tissue-Selective Promoters & Research-Ready Functional Cargo

Collection	Promoter	Specific Gene / Functional Cargo
Universal	CMV, CAG, EF1α, miniEF1α, PGK, Ubc,	Cre, Flp, rtTA, tTA, TetR, Cas9, dCas9, Large-T, mCherry, tdTomato,
Neuron-Specific	hSyn, CaMKIIα, vGlut1, vGlut2, GFAP/GfaABC1D, MBP, TH, ChAT,	hChR2(H134R), GCaMP6s, GCaMP6m, GCaMP6f, hM3D(Gq), hM4D(Gi), Cre, Flp
Liver Specific	TBG	Cre, Flp, EGFP, Luciferase, Cas9, PCSK9, APOE, LDLR, OTC, FIX/F9, FVIII/F8, G6PC
Skeletal Muscle	MCK/CKM, MHCK7, Desmin,	DMD/Micro-dystrophin, Cas9, Cre, EGFP, Luciferase, IGF1, Follistatin/FST
Cardiomyocyte	cTnT/TNNT2, α-MHC/MYH6, MLC2v/MYL2, MHCK7	Cre, GCaMP6f, GCaMP6s, Cas9, SERCA2a/ATP2A2, PLN, MYBPC3, EGFP, Luciferase
Retina Specific	GRK1, RPE65 or BEST1	RHO, RPGR, ABCA4, CNGA3, CNGB3, PDE6B, CRX, GCaMP6f, EGFP
Kidney Specific	NPHS1, NPHS2, CDH16/KSP	Cre, EGFP, NPHS1, NPHS2, Cas9, PKD1, PKD2
Lung Specific	SFTPC, SCGB1A1/CC10	Cre, EGFP, CFTR, SFTPC, Cas9

Cat #	Functional Group	Promoter	Feature Tag	Selection
	Overexpression Non-Viral Template Vector			
EMS-FXD0PA-T	OverExp Non-Viral Template Vector - Puro	miniEF1α	None	Puromycin
EMS-FX0GPA-T	OverExp Non-Viral Template Vector - GFP-Puro	miniEF1α	GFP	None
EMS-FX0RPA-T	OverExp Non-Viral Template Vector - RFP-Puro	miniEF1α	RFP	None
	CRISPR Non-Viral Template Vector			
COT-FUD0PA-T	CRISPR Knockout Non-Viral AIO Template Vector - Puro	miniEF1α	None	Puromycin
COT-FUD0BA-T	CRISPR Knockout Non-Viral AIO Template Vector - BSD	miniEF1α	None	BSD
COT-FDD0BA-T	CRISPR Knockout Dual Non-Viral AIO Template Vector - BSD	miniEF1α	None	BSD
CPT-CDD0PA-T	CRISPRp Prime Editing Non-Viral AIO Template Vector - BSD	CMV	None	BSD
CET-CU00PA-T	CRISPRn ABE Non-Viral AIO Template Vector - Puro	CMV	None	Puromycin
CFT-CU00PA-T	CRISPRn CBE Non-Viral AIO Template Vector - Puro	CMV	None	Puromycin
CAT-FUD0PA-T	CRISPRa Non-Viral AIO Template Vector - VP64 - Puro	miniEF1α	None	Puromycin
COT-FUD0PA-T	CRISPR Knockout Non-Viral AIO Template Vector - Puro	miniEF1α	None	Puromycin
COT-FUD0BA-T	CRISPR Knockout Non-Viral AIO Template Vector - BSD	miniEF1α	None	BSD
COT-FDD0BA-T	CRISPR Knockout Dual Non-Viral AIO Template Vector - BSD	miniEF1α	None	BSD
CIT-CUDG0A-T	CRISPRi Non-Viral AIO Template Vector - KRAB-MeCP2 -GFP	CMV	GFP	BSD
CRT-FUD0PA-T	CRISPRr Non-Viral AIO Template Vector - Puro	miniEF1α	None	Puromycin
	RNAi Non-Viral Template Vector			
SHT-FUD0PA-T	RNAi Non-Viral AIO Template Vector - Puro	U6; miniEF1α	None	Puromycin
SHT-FUDG0A-T	RNAi Non-Viral AIO Template Vector - GFP	U6; miniEF1α	GFP	None
	Overexpression AAV Template Vector			
EMA-FXD0PA-T	OverExp AAV Template Vector- Puro	miniEF1α	None	Puromycin
EMA-CX000A-T	OverExp AAV Template Vector	CMV	None	None
EMA-SX0C0A-T	hSyn Promoter AAV Template Vector - mCherry	hSyn Promoter	mCherry	None
EMA-KX0C0A-T	CaMKIIα Promoter AAV Template Vector - mCherry	CaMKIIα	mCherry	None
EMA-GX0C0A-T	vGlut2 Promoter AAV Template Vector - mCherry	vGlut2 Promoter	mCherry	None
	RNAi AAV Template Vector			
SHB-CU0G0A-T	RNAi AAV AIO Template Vector - GFP	U6, CMV	GFP	None
SHB-CU00GA-T	RNAi AAV AIO Template Vector - Puro	U6, CMV	None	Puromycin
	Overexpression Lentiviral Template Vector			
EML-FXD0PC-T	OverExp Lentiviral Template Vector - Puro	miniEF1α	None	Puromycin
EML-FXDM0C-T	OverExp Lentiviral Template Vector - MiniGFP	miniEF1α	MiniGFP	None
EML-FX0G0C-T	OverExp Lentiviral Template Vector - GFP	miniEF1α	GFP	None
	CRISPR Lentiviral Template Vector			
COM-FUD0PC-T	CRISPR Knockout Lentiviral AIO Template Vector - Puro	miniEF1α	None	Puromycin
COM-FUD0BC-T	CRISPR Knockout Lentiviral AIO Template Vector - BSD	miniEF1α	None	BSD
CAM-FUD0PC-T	CRISPRa Lentiviral AIO Template Vector - VPH - Puro	miniEF1α	None	Puromycin
CAM-FU00BC-T	CRISPRa Lentiviral AIO Template Vector - VPH - BSD	miniEF1α	None	BSD
CIM-FU00BC-T	CRISPRi Lentiviral AIO Template Vector - BSD	miniEF1α	None	BSD
	RNAi Lentiviral Template Vector			
SHM-FUD0PC-T	RNAi Lentiviral AIO Template Vector - Puro	miniEF1α	None	Puromycin
SHM-FUD0MC-T	RNAi Lentiviral AIO Template Vector - MiniGFP	miniEF1α	MiniGFP	None

Cat #	Functional Group	Functional Gene	Feature Tag	Selection
	Universal Expression Vector — AAV			
EMA-FX00PA-LARGET	pAAV-CMV-LargeT-BSD	CMV Promoter	None	BSD
EMA-FX00BA-LARGET	pAAV-CMV-LargeT-Puro	CMV Promoter	None	Puromycin
EMA-FX00BA-CreRCB	pAAV-CMV-Cre-BSD	CMV Promoter	None	BSD
EMA-FX00BA-CreRCB	pAAV-CMV-Cre-Puro	CMV Promoter	None	Puromycin
	Universal Expression Vector — Lentiviral			
EML-FX00PC-LARGET	pLenti-CMV-LargeT-BSD	CMV Promoter	None	BSD
EML-FX00BC-LARGET	pLenti-CMV-LargeT-Puro	CMV Promoter	None	Puromycin
EML-FX00BC-CreRCB	pLenti-CMV-Cre-BSD	CMV Promoter	None	BSD
EML-FX00BC-CreRCB	pLenti-CMV-Cre-Puro	CMV Promoter	None	Puromycin
	Neuron-Specific Vector — AAV			
EMA-SX0C0A-CreRCB	pAAV-hSyn-Cre-mCherry-WPRE	hSyn Promoter	mCherry	None
EMA-SX0C0A-ChR2HR	pAAV-hSyn-hChR2(H134R)-mCherry-WPRE	hSyn Promoter	mCherry	None
EMA-SX0C0A-GCMp6s	pAAV-hSyn-GCaMP6s-mCherry-WPRE	hSyn Promoter	mCherry	None
EMA-SX0C0A-hM3DGq	pAAV-hSyn-hM3D(Gq)-mCherry-WPRE	hSyn Promoter	mCherry	None
EMA-SX0C0A-hM4DGi	pAAV-hSyn-hM4D(Gi)-mCherry-WPRE	hSyn Promoter	mCherry	None
EMA-KX0C0A-CreRCB	pAAV-CaMKIIα-Cre-mCherry-WPRE	CaMKIIα Promoter	mCherry	None
EMA-KX0C0A-ChR2HR	pAAV-CaMKIIα-hChR2(H134R)-mCherry-WPRE	CaMKIIα Promoter	mCherry	None
EMA-KX0C0A-GCMp6s	pAAV-CaMKIIα-GCaMP6s-mCherry-WPRE	CaMKIIα Promoter	mCherry	None
EMA-KX0C0A-hM3DGq	pAAV-CaMKIIα-hM3D(Gq)-mCherry-WPRE	CaMKIIα Promoter	mCherry	None
EMA-KX0C0A-hM4DGi	pAAV-CaMKIIα-hM4D(Gi)-mCherry-WPRE	CaMKIIα Promoter	mCherry	None
	Neuron-Specific Vector — Lentiviral			
EML-SX0C0C-CreRCB	pLenti-hSyn-Cre-mCherry-WPRE	hSyn Promoter	mCherry	None
EML-SX0C0C-ChR2HR	pLenti-hSyn-hChR2(H134R)-mCherry-WPRE	hSyn Promoter	mCherry	None
EML-SX0C0C-GCMp6s	pLenti-hSyn-GCaMP6s-mCherry-WPRE	hSyn Promoter	mCherry	None
EML-SX0C0C-hM3DGq	pLenti-hSyn-hM3D(Gq)-mCherry-WPRE	hSyn Promoter	mCherry	None
EML-SX0C0C-hM4DGi	pLenti-hSyn-hM4D(Gi)-mCherry-WPRE	hSyn Promoter	mCherry	None
EML-KX0C0C-CreRCB	pLenti-CaMKIIα-Cre-mCherry-WPRE	CaMKIIα Promoter	mCherry	None
EML-KX0C0C-ChR2HR	pLenti-CaMKIIα-hChR2(H134R)-mCherry-WPRE	CaMKIIα Promoter	mCherry	None
EML-KX0C0C-GCMp6s	pLenti-CaMKIIα-GCaMP6s-mCherry-WPRE	CaMKIIα Promoter	mCherry	None
EML-KX0C0C-hM3DGq	pLenti-CaMKIIα-hM3D(Gq)-mCherry-WPRE	CaMKIIα Promoter	mCherry	None
EML-KX0C0C-hM4DGi	pLenti-CaMKIIα-hM4D(Gi)-mCherry-WPRE	CaMKIIα Promoter	mCherry	None
EML-GX0C0C-CreRCB	pLenti-vGlut2-Cre-mCherry-WPRE	vGlut2 Promoter	mCherry	None
EML-GX0C0C-ChR2HR	pLenti-vGlut2-hChR2(H134R)-mCherry-WPRE	vGlut2 Promoter	mCherry	None
EML-GX0C0C-GCMp6s	pLenti-vGlut2-GCaMP6s-mCherry-WPRE	vGlut2 Promoter	mCherry	None
EML-GX0C0C-hM3DGq	pLenti-vGlut2-hM3D(Gq)-mCherry-WPRE	vGlut2 Promoter	mCherry	None
EML-GX0C0C-hM4DGi	pLenti-vGlut2-hM4D(Gi)-mCherry-WPRE	vGlut2 Promoter	mCherry	None

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