

表2 豆科作物常用标记基因

Table 2 Common marker genes of legume crops

物种 Species	品种(品系) Cultivar (Line)	外植体 Explant	筛选 Selection		参考文献 References
			标记基因 Marker gene	药品 Agent	
花生 <i>Arachis hypogaea</i>	Gajah, NC-7	体细胞胚 Embryogenic	<i>hph</i>	Hyg	Livingstone and Birch., 1999
	JL-24	子叶 Cotyledons	<i>npt II</i>	Kan	Sharma and Anjaiah, 2000
	AT120/VC1	体细胞胚 Embryogenic	<i>hph</i>	Hyg	Magbanua et al., 2000
	TMV-2	未成熟胚 Embryo axes non-tissue	<i>gusA</i>	Visual	Rohini and Rao, 2000
	Hyderabad	胚轴 Embryonic axis	<i>npt II</i>	Kan	Lawrence et al., 2001
木豆 <i>Cajanus cajan L.</i> Millsp.		胚轴和子叶节 Embryonic axes and cotyledary nodes	<i>npt II</i>	Kan	Satyavathi et al., 2003
鹰嘴豆 <i>Cicer arietinum</i>	PG1/PG12/Chafa/Turkey	胚轴 Embryonic axis	<i>pat, npt II</i>	PPT, Kan	Krishnamurthy et al., 2000
瓜尔豆 <i>Cyamopsis tetragonoloba</i>	Lewis/Santa Cruz	胚轴 Embryonic axis	<i>npt II</i>	Kan	Joersbo et al., 1999a
大豆 <i>Glycine max</i>	Jack	子叶 Cotyledons	<i>hph</i>	Hyg	Santarem and Finer., 1999
	A3237	未成熟胚 Immature embryos	<i>bar</i>	PPT	Zhang et al., 1999
	Jack	子叶节 Cotyledonary node	<i>hpt</i>	Hyg	Yan et al., 2000
	BR-16/DokoPC/BR-19/C onquista	未成熟胚 Immature cotyledon	<i>ahas</i>	imazapyr	Aragão et al., 2000
	Bert	胚轴 Embryonic axis	<i>hph</i>	Hyg	Olhoff et al., 2003
扁豆 <i>Lens culinaris Medik</i>	Laird/CDC599-23	子叶节 Cotyledonary node	<i>als</i>	Chlorsulfuron	Anju et al., 2002
羽扇豆 <i>Lupinus angustifolius</i>	Unicrop/Merrit	子叶节 Cotyledonary node	<i>bar</i>	PPT	Pigeaire et al., 1997
黄羽扇豆 <i>Lupinus luteus</i>	Wodjil/Popiel/Teo/Juno	腋芽 Axillary shoot embryonic axis	<i>bar</i>	PPT	Li et al., 2000
宽叶菜豆 <i>Phaseolus acutifolius A. Gray</i>	NI576	顶端分生组织 Apical meristem	<i>npt II</i>	G418	de Clercq et al., 2002
菜豆 <i>Phaseolus vulgaris</i>	Olathe/Carioca	芽外植体 Bud explants	<i>bar</i>	PPT	Aragão et al., 2002
豌豆 <i>Pisum sativum</i>	94-A26/Bolero/Hadlee/Crown/Courier/89T46.UK	胚轴 Embryonic axes	<i>npt II</i>	Kan	Grant et al., 1998
	Laser, Heiga	未成熟子叶 Immature cotyledons	<i>npt II, bar</i>	PPT, Kan	Nadolska-Orczyk and Orczyk, 2000

续表 2
Continuing table 2

物种 Species	品种(品系) Cultivar (Line)	外植体 Explant	筛选 Selection		参考文献 References
			标记基因 Marker gene	药品 Agent	
蚕豆 <i>Vicia faba</i>	Greenfeast/CDC Vienna/ S2-90-25E/93-4-18G/ MP1338/MP1382/AWPNZ	子叶 Cotyledons	<i>npt II, bar</i>	PPT, Kan	Polowick et al., 2000
	66/AWP1512	胚轴 Embryonic axis	<i>als</i>	chlorsulfuron	Polowick et al., 2000
	Mythos	胚轴 Embryonic axis	<i>npt II</i>	Kan	B öttinger et al., 2001
	Var. narbonensis	上胚轴 Epicotyls	<i>npt II</i>	G418	Zakharov et al, 2004
	Beni-dainagon	上胚轴和茎尖 Epicotyls and shoot tips	<i>npt II</i>	Kan	Yamada et al., 2001
	Vigna angularis Willd.				
	Ohwi/Ohashi				
	绿豆 <i>Vigna radiata L.</i>	上胚轴 Elongated epicotyls	<i>npt II</i>	Kan	Jaiwal et al., 2001
	Wilczek				
豇豆 <i>Vigna sesquipedalis</i>	Koern	子叶节 Cotyledonary node	<i>bar, npt II</i>	PPT, Kan	Ignacimuthu, 2000