

Figure S1. qPCR detection of knockdown efficiency of *Axl*, *Axl-S* and *Axl-L* in liver cancer cells

qPCR was used to detect the knockdown efficiency of *Axl* (A), *Axl-L* (B) and *Axl-S* (C) in HepG2 cells; qPCR was used to detect the knockdown efficiency of *Axl* (D), *Axl-L* (E) and *Axl-S* (F) in HCCLM3 cells. Data are presented as mean \pm S.D. (*N*=3), and one way ANOVA followed by Tukey's test was performed for statistical analysis. The "***" indicates "P<0.001" versus the control group.



Figure S2. Transcriptome sequencing analysis of differentially expressed genes in high and low metastatic liver cancer cells

(A) Volcano Mapping Analysis of Differentially Expressed Genes in HCCLM3 and HepG2 Cells. Transcriptome sequencing analysis of differentially expressed hnRNP family proteins (A), SR family proteins (B) and other splicing proteins (C) in HCCLM3 cells and HepG2 cells. Α

С

Suvival probability

1.00

0.75

0.5

0.25

0.00

0

P=0.0043

1000

Expression of PTBP1 in HCC based on Sample types





Expression of PTBP1 in HCC based on tumor grade



Effect of PTBP1 expression level on

HCC patient survival

2000

Expression level

3000

High expression(n=89) Low/Mediunm-expression(n=276)









Figure S3. Clinical analysis of the effect of PTBP1 and Axl expression level on liver cancer

Expression of AXL in HCC based on Sample types

(A) The expression level of PTBP1 and Axl in liver cancer tissues and normal liver tissues. (B) The expression level of PTBP1 and Axl in different stages of liver cancer. (C) Effect of difference in expression level of PTBP1 and Axl on survival probability of patients with liver cancer. (D) The clinical significance of PTBP1/Axl.



Figure S4. Verification of over-expression or knockdown efficiency of PTBP1

Western-blot detects the over-expression (A) or knockdown (B) efficiency of PTBP1. (C-D) Statistical difference analysis of PTBP1 over-expression efficiency; (E-F) Statistical difference analysis of PTBP1 knockdown efficiency. Data are presented as mean \pm S.D. (*N*=3), one way ANOVA followed by Tukey's test was performed for statistical analysis. The "***" indicates "P<0.001" versus the control group.



Figure S5. qPCR was used to detect the effect of PTBP1 on the Axl-S isoform (minigene level)

Over-expression or knockdown of the effect of PTBP1 on the expression levels of *Axl-S* isoform (minigene levels) in HepG2 (A) or HCCLM3 (B) cells. Data are presented as mean \pm S.D. (*N*=3), one way ANOVA followed by Tukey's test was performed for statistical analysis. The "*, **, ***" indicates "P<0.05, 0.01, 0.001" versus the control group, respectively.



Figure S6. qPCR was used to examine the effect of PTBP1 on wild-type or mutant Axlminigene

Data are presented as mean \pm S.D. (*N*=3), one way ANOVA followed by Tukey's test was performed for statistical analysis. The "**" indicates "P<0.01" versus the control group; The "#" indicates "P<0.05" versus the "PTBP1+WT" group.



Figure S7. qPCR detection of over-expression efficiency of *Axl-L* or *Axl-S* isoforms in liver cancer cells

qPCR was used to detect the over-expression efficiency of *Axl-L* (A) and *Axl-S* (B) in HepG2 cells; qPCR was used to detect the over-expression efficiency of *Axl-L* (C) and *Axl-S* (D) in HCCLM3 cells. Data are presented as mean \pm S.D. (*N*=3), and one way ANOVA followed by Tukey's test was performed for statistical analysis. The "***" indicates "P<0.001" versus the control group.



Figure S8. Effects of expression levels of PTBP1 and Axl isoforms on growth and proliferation of hepatoma cells

(A) Tumor size appearance of each group of mice, and the red circle marks the tumor. (B) The average weight of tumors in each group of mice. (C) The expression level of Ki67 in tumor tissues was analyzed by immunohistochemistry, and the average Ki67 positive cells in tumor tissues of each group were analyzed by image J software. Data are presented as mean \pm S.D. (*N*=6), and one way ANOVA followed by Tukey's test was performed for statistical analysis. The "*, **, ***" indicates "P<0.05, 0.01, 0.001" versus the corresponding group, respectively.



Figure S9. Structural diagram to explain the design of Axl-L and Axl-S knockdown sites.

Primer names	Sequences	Applications
Axl-E9-FP	5'GTGCTAATGGACATAGGGCTAA	Fig. 1 B, 1 C, 3 F, 4 B, 4
	G3'	C and 5 A
Axl-E11-RP	5'CCATAACGGGTCTCCTTCTTTC3'	Fig. 1 B, Fig. 3 D, 3 E, 3
		G, 4 B, 4 C, 5 A and Fig.
		S1 and S6
Axl-S-RT-RP	5'GGTTCCTTCACTGGGCGCC3'	Fig. 1 C and Fig. S5, S6
GAPDH-RT-	5'GACACCCACTCCTCCACCTTT3'	Fig. 1 C, Fig. 3 A, 3 D, 3
FP		E, 3 F, Fig. S1 and S7
GAPDH-RT-	5'TGTTGCTGTAGCCAAATTCGTT3'	Fig. 1 C, Fig. 3 A, 3 D, 3
RP		E, 3 F, Fig. S1 and S7
hnRNPA1-RT-	5'CTTTGCCTTTGTAACCTTTGACG	Fig 2 A
FP	3'	Fig. 5 A
hnRNPA1-RT-	5'TCTTTGGCTGGATGAAGCACTA	Fig 2 A
RP	G3'	Fig. 5 A
hnRNPA/B-	5'TAGACCAGAAGGAGCACAGGC3	Fig 3 A
RT-FP	,	1 19. 0 1 1
hnRNPA/B-	5'TGGCTTCAGGATTCAGACCC3"	Fig 3 A
RT-RP		1 19. 0 1 1
hnRNPC-RT-	5'TAGTGCCCTCGAAACGTCAG3'	Fig 3 A
FP		1 19. 571
hnRNPC-RT-	5'TAGTGCCCTCGAAACGTCAG3'	Fig 3 A
RP		112.571
hnRNPF-RT-	5'CAGGCAGAGTGGTGAGGCT3'	Fig 3 A
FP		112.571
hnRNPF-RT-	5'CTCGGTTCTGTGGGACTTGA3'	Fig. 3 A
RP		11g. 5 A
hnRNPH2-RT-	5'GCTGGGTTTGAAAGGATGAG3'	Fig. 3 A
FP		1 1 <u>5</u> . J A
hnRNPH2-RT-	5'TGTGGTGCTCTGGAAACTGG3'	Fig 3 A
RP		1 1 <u>5</u> . <i>5</i> A

Supplementary Table 1 List of primers

PTBP1-RT-FP	5'TGGATGGTGCTCCTTCTCGT3'	Fig. 3 A
PTBP1-RT-RP	5'GCTGCTTCCTCGGTTGCTAG3'	Fig. 3 A
SRp30-RT-FP	5'GGGATGTCTGTTATGCTGATGTG C3'	Fig. 3 A
SRp30-RT-RP	5'GGGAACCCCTGCTTTGGTAT3"	Fig. 3 A
SRp38-RT-FP	5'CACTTGATTTCTACACTCGCCG3'	Fig. 3 A
SRp38-RT-RP	5'TACACATTCCTCCCTTCCTTGG3'	Fig. 3 A
SRp40-RT-FP	5'GGACGATACTCTGACCGTTTTA3'	Fig. 3 A
SRp40-RT-RP	5'CTTCCCCAGCTTGTCTCATG3'	Fig. 3 A
SRp75-RT-FP	5'TGTGGTGAGCGAGTAATTGTTG3 '	Fig. 3 A
SRp75-RT-RP	5'TTCATTTTTGCGTCCCTTGTG3'	Fig. 3 A
Tra2α-RT-FP	5'AATCCAGATCCCAACACTTGCC3	Fig. 3 A
Tra2α-RT-RP	5'ATCCACCCGAATTCTTCTACCA3'	Fig. 3 A
Fox1-RT-FP	5'AAAACAAGTCTCAGCCCAAGCG	F ' 2.4
	3'	F1g. 3 A
Fox1-RT-RP	3' 5'CGAAAGTTACGAAACCAAATCC	F1g. 3 A
Fox1-RT-RP	3' 5'CGAAAGTTACGAAACCAAATCC CT3'	Fig. 3 A Fig. 3 A
Fox1-RT-RP Fox2-RT-FP	3' 5'CGAAAGTTACGAAACCAAATCC CT3' 5'TTGCCAAACTGCCCAAACAT3'	Fig. 3 A Fig. 3 A Fig. 3 A
Fox1-RT-RP Fox2-RT-FP Fox2-RT-RP	3' 5'CGAAAGTTACGAAACCAAATCC CT3' 5'TTGCCAAACTGCCCAAACAT3' 5'GCAGAGCAGCAACTCACCCA3'	Fig. 3 A Fig. 3 A Fig. 3 A Fig. 3 A
Fox1-RT-RP Fox2-RT-FP Fox2-RT-RP Celf1-RT-FP	3' 5'CGAAAGTTACGAAACCAAATCC CT3' 5'TTGCCAAACTGCCCAAACAT3' 5'GCAGAGCAGCAACTCACCCA3' 5'AGATGTTTGTGGGGCCAGGTT3'	Fig. 3 A Fig. 3 A Fig. 3 A Fig. 3 A Fig. 3 A
Fox1-RT-RP Fox2-RT-FP Fox2-RT-RP Celf1-RT-FP Celf1-RT-RP	3' 5'CGAAAGTTACGAAACCAAATCC CT3' 5'TTGCCAAACTGCCCAAACAT3' 5'GCAGAGCAGCAACTCACCCA3' 5'AGATGTTTGTGGGGCCAGGTT3' 5'TGGGAGGACTTTCATGTTGTGA3 '	Fig. 3 A Fig. 3 A Fig. 3 A Fig. 3 A Fig. 3 A Fig. 3 A
Fox1-RT-RP Fox2-RT-FP Fox2-RT-RP Celf1-RT-FP Celf1-RT-RP Celf4-RT-FP	3' 5'CGAAAGTTACGAAACCAAATCC CT3' 5'TTGCCAAACTGCCCAAACAT3' 5'GCAGAGCAGCAACTCACCCA3' 5'AGATGTTTGTGGGCCAGGTT3' 5'TGGGAGGACTTTCATGTTGTGA3 ' 5'AAACGGACAGGCTGACAACG3'	Fig. 3 A Fig. 3 A
Fox1-RT-RP Fox2-RT-FP Fox2-RT-RP Celf1-RT-FP Celf1-RT-RP Celf4-RT-FP Celf4-RT-RP	3' 5'CGAAAGTTACGAAACCAAATCC CT3' 5'TTGCCAAACTGCCCAAACAT3' 5'GCAGAGCAGCAACTCACCCA3' 5'AGATGTTTGTGGGCCAGGTT3' 5'AGATGTTTGTGGGCCAGGTT3' 5'TGGGAGGACTTTCATGTTGTGA3 ' 5'AAACGGACAGGCTGACAACG3' 5'CCTTCAGAACCGTAAGCTCGTA3	Fig. 3 A Fig. 3 A
Fox1-RT-RP Fox2-RT-FP Fox2-RT-RP Celf1-RT-FP Celf1-RT-RP Celf4-RT-FP Celf4-RT-RP	3' 5'CGAAAGTTACGAAACCAAATCC CT3' 5'TTGCCAAACTGCCCAAACAT3' 5'GCAGAGCAGCAGCAACTCACCCA3' 5'AGATGTTTGTGGGGCCAGGTT3' 5'TGGGAGGACTTTCATGTTGTGA3 ' 5'AAACGGACAGGCTGACAACG3' 5'CCTTCAGAACCGTAAGCTCGTA3 ' 5'TGAAGGAACCTTCAACTCCTGC	Fig. 3 A Fig. 3 A
Fox1-RT-RP Fox2-RT-FP Fox2-RT-RP Celf1-RT-FP Celf1-RT-RP Celf4-RT-FP Celf4-RT-FP Celf4-RT-RP	3' 5'CGAAAGTTACGAAACCAAATCC CT3' 5'TTGCCAAACTGCCCAAACAT3' 5'GCAGAGCAGCAGCAACTCACCCA3' 5'AGATGTTTGTGGGGCCAGGTT3' 5'TGGGAGGACTTTCATGTTGTGA3 ' 5'AAACGGACAGGCTGACAACG3' 5'CCTTCAGAACCGTAAGCTCGTA3 ' 5'TGAAGGAACCTTCAACTCCTGC C3'	Fig. 3 A Fig. 3 A
Fox1-RT-RP Fox2-RT-FP Fox2-RT-RP Celf1-RT-FP Celf1-RT-RP Celf4-RT-FP Celf4-RT-RP Ax1-E11-FP Ax1-E10-FP	3' 5'CGAAAGTTACGAAACCAAATCC CT3' 5'TTGCCAAACTGCCCAAACAT3' 5'GCAGAGCAGCAGCAACTCACCCA3' 5'AGATGTTTGTGGGGCCAGGTT3' 5'TGGGAGGACTTTCATGTTGTGA3 ' 5'AAACGGACAGGCTGACAACG3' 5'CCTTCAGAACCGTAAGCTCGTA3 ' 5'TGAAGGAACCTTCAACTCCTGC C3' 5'TCCCTTACTCGTGCCACACCCTC	Fig. 3 A Fig. 3 D, 3 E, 4 B, 4 C and Fig. S1 A and S1 D. Fig. 3 D, 3 E, 4 B, 4 C, 5
Fox1-RT-RP Fox2-RT-FP Fox2-RT-RP Celf1-RT-FP Celf1-RT-RP Celf4-RT-FP Celf4-RT-RP Ax1-E11-FP Ax1-E10-FP	3' 5'CGAAAGTTACGAAACCAAATCC CT3' 5'TTGCCAAACTGCCCAAACAT3' 5'GCAGAGCAGCAGCAACTCACCCA3' 5'AGATGTTTGTGGGGCCAGGTT3' 5'TGGGAGGACTTTCATGTTGTGA3 ' 5'AAACGGACAGGCTGACAACG3' 5'CCTTCAGAACCGTAAGCTCGTA3 ' 5'TGAAGGAACCTTCAACTCCTGC C3' 5'TCCCTTACTCGTGCCACACCCTC AC3'	Fig. 3 A Fig. 3 D, 3 E, 4 B, 4 C and Fig. S1 A and S1 D. Fig. 3 D, 3 E, 4 B, 4 C, 5 A and Fig. S1 B, S1 E, S7

Axl-S-FP	5'GGCGCCCAGTGAAGGAACC3'	Fig. 3 D, 3 E and Fig. S1 C, S1 F, S7 B and S7 D.
Axl-S-RP	5'GGTTCCTTCACTGGGCGCC3'	Fig. 1 C, S5 and S6
pcDNA3.1-ex- FP	5'TAATACGACTCACTATAGGGAG ACC3'	Fig. 3 H, 3 I and S5
Axl-E9-RP	5'CTGGGCGCCAGGCCTCCAGG3'	Fig. 3 H, 3I, 4 B, 4 C, 5 A and S5
Axl-L-ORF- HR-FP	5' GTTAATTAAGGATCCGTTT<u>GC</u> <u>CACC</u>ATGGCGTGGCGGTGCCCCA G3'	Construction of pMXs- AXL-L
AXL-L-ORF-	5'CGTCCTTGTAGTCTTGTTTTC	Construction of pMXs-
HR-RP	AGGCACCATCCTCCTGCCCT3'	AXL-L
pMXs-Axl-S-	5'TGAAGGAACCTTCAACTCCTGC	Construction of pMXs-
FP	3'	AXL-S
pMXs-Axl-S-	5'CTGGGCGCCAGGCCTCCAG 3'	Construction of pMXs-
RP		AXL-S
pMXs-FP	5' GACCCCGGGGGGGGGGGACCATCCTC T 3'	Sequencing
pMXs-RP	5' TTATCGTCGACCACTGTGCTG3'	Sequencing
shAxl-1 st	5'gatccccCGTGGAGAACAGCGAGA TTTAttcaagaga3'	Construction of pSUPER- shAXL
shAxl-2 nd	5'TAAATCTCGCTGTTCTCCACGttttt a3'	Construction of pSUPER- shAXL
shAxl-3 rd	5'TAAATCTCGCTGTTCTCCACGgg g3'	Construction of pSUPER- shAXL
shAxl-4 th	5'agcttaaaaaCGTGGAGAACAGCGA GATTTAtctcttgaa3'	Construction of pSUPER- shAXL
shAxl-L-1 st	5'gatccccGGCAAGCACAGCCAGTC CACCttcaagaga3'	Construction of pSUPER- shAXL-L

shArl-I-3rd	5'GGTGGACTGGCTGTGCTTGCCgg	Construction of pSUPER-
SIIAXI-L-S	g3'	shAXL-L
shAxl-L-4 th	5'agcttaaaaaGGCAAGCACAGCCAG	Construction of pSUPER-
	TCCACCtctcttgaa3'	shAXL-L
	5'gatccccTGGCGCCCAGTGAAGGA	Construction of pSUPER-
SIIA <i>AI-</i> 5-1	ACCttcaagaga3'	shAXL-S
	5'	Construction of pSUPER-
shAxl-S-2 nd	GGTTCCTTCACTGGGCGCCAttttta3	shAXI-S
	,	SIIAAL-S
$shArl-S-3^{rd}$	5'	Construction of pSUPER-
511/17/-0-5	GGTTCCTTCACTGGGCGCCAggg3'	shAXL-S
$shArl-S-A^{th}$	5'agcttaaaaaTGGCGCCCAGTGAAGG	Construction of pSUPER-
511/17/-0-4	AACCtctcttgaa3'	shAXL-S
	5'	
pSUPER (+19)	CGACGGTATCGATAAGCTTAAAA	Sequencing
	A 3'	
pSUPER (-20)	5' TGTGTAGCGCCAAGTGCCCA 3'	Sequencing
Axl-mini-FP	5'GTGCTAATGGACATAGGGCTAA3	Construction of
	,	pcDNA3.1-AXL-
		minigene
Axl-mini-RP	5'CCATAACGGGTCTCCTTCTTC3'	Construction of
		pcDNA3.1-AXL-
		minigene
Axl-mini-HR-	5'TAGTCCAGTGTGGTGGAATTC	Construction of
FP	GTGCTAATGGACATAGGGCTAA3'	pcDNA3.1-AXL-
		minigene
Axl-mini-HR-	5'AACGGGCCCTCTAGACTCGAG	Construction of
RP	CCATAACGGGTCTCCTTCTTC3'	pcDNA3.1-AXL-
		minigene
Axl-Intron-9-1-	5'TGAGAGCTG <u>A</u> CCT <u>A</u> ACTC <u>A</u> CTT	Construction of mutant
MT-FP	A <u>A</u> CCATG3'	pcDNA3.1-AXL-
		minigene

Axl-Intron-9-1-	5'CATGG <u>T</u> TAAG <u>T</u> GAGT <u>T</u> AGG <u>T</u> CA	Construction of mutant
MT-RP	GCTCTCA3'	pcDNA3.1-AXL-
		minigene
Axl-Intron-9-2-	5'ACATC <u>A</u> CCTC <u>A</u> CTGTC <u>A</u> TTT <u>A</u> TT	Construction of mutant
MT-FP	C <u>A</u> CACA3'	pcDNA3.1-AXL-
		minigene
Axl-Intron-9-2-	5'TGTG <u>T</u> GAA <u>T</u> AAA <u>T</u> GACAG <u>T</u> GAG	Construction of mutant
MT-RP	G <u>T</u> GATGT3'	pcDNA3.1-AXL-
		minigene
Axl-minigene-	5'GCACAGTGGCGGCCG <u>CTCGAG</u>	Construction of
MS2-FP	CCGGGCCCTATATATGGA3'	pcDNA3.1-AXL-
		minigene-MS2 plasmid
Axl-minigene-	5'AACGGGCCCTCTAGACTCGAG	Construction of
MS2-RP	TCGATCGCGCGCAGATCT3'	pcDNA3.1-AXL-
		minigene-MS2 plasmid
Axl-In9-FP	5'TCTCTCCCTGACAGCCCTGACT3	CLIP. Fig. 4 B, 4C and
	,	5A
Axl-In9-RP	' 5'AAGGGAGTGAGGGTGTGGCAC	5A CLIP. Fig. 4 B, 4C and
Axl-In9-RP	' 5'AAGGGAGTGAGGGTGTGGCAC G3'	5A CLIP. Fig. 4 B, 4C and 5A
Axl-In9-RP Axl-E10-RP	' 5'AAGGGAGTGAGGGTGTGGCAC G3' 5'GAGAAACATGAAAGGGATGTGC	5A CLIP. Fig. 4 B, 4C and 5A CLIP. Fig. 4 B, 4C and
Axl-In9-RP Axl-E10-RP	' 5'AAGGGAGTGAGGGTGTGGCAC G3' 5'GAGAAACATGAAAGGGATGTGC 3'	5A CLIP. Fig. 4 B, 4C and 5A CLIP. Fig. 4 B, 4C and 5A
Axl-In9-RP Axl-E10-RP Axl-In10-1-FP	' 5'AAGGGAGTGAGGGTGTGGCAC G3' 5'GAGAAACATGAAAGGGATGTGC 3' 5'TCCTCCTCACATCCATCCCTCTC	5A CLIP. Fig. 4 B, 4C and 5A CLIP. Fig. 4 B, 4C and 5A CLIP. Fig. 4 B, 4C and
Axl-In9-RP Axl-E10-RP Axl-In10-1-FP	' 5'AAGGGAGTGAGGGTGTGGCAC G3' 5'GAGAAACATGAAAGGGATGTGC 3' 5'TCCTCCTCACATCCATCCCTCTC 3'	5A CLIP. Fig. 4 B, 4C and 5A CLIP. Fig. 4 B, 4C and 5A CLIP. Fig. 4 B, 4C and 5A
Axl-In9-RP Axl-E10-RP Axl-In10-1-FP Axl-In10-1-RP	' 5'AAGGGAGTGAGGGGTGTGGCAC G3' 5'GAGAAACATGAAAGGGATGTGC 3' 5'TCCTCCTCACATCCATCCCTCTC 3' 5'GAATGAGAAGTGTGTTGTGCAA	5A CLIP. Fig. 4 B, 4C and 5A CLIP. Fig. 4 B, 4C and 5A CLIP. Fig. 4 B, 4C and 5A CLIP. Fig. 4 B, 4C and
Axl-In9-RP Axl-E10-RP Axl-In10-1-FP Axl-In10-1-RP	' 5'AAGGGAGTGAGGGGTGTGGCAC G3' 5'GAGAAACATGAAAGGGATGTGC 3' 5'TCCTCCTCACATCCATCCCTCTC 3' 5'GAATGAGAAGTGTGTTGTGCAA TGG3'	5A CLIP. Fig. 4 B, 4C and 5A CLIP. Fig. 4 B, 4C and 5A CLIP. Fig. 4 B, 4C and 5A CLIP. Fig. 4 B, 4C and 5A
Axl-In9-RP Axl-E10-RP Axl-In10-1-FP Axl-In10-1-RP Axl-In10-2-FP	' 5'AAGGGAGTGAGGGGTGTGGCAC G3' 5'GAGAAACATGAAAGGGATGTGC 3' 5'TCCTCCTCACATCCATCCCTCTC 3' 5'GAATGAGAAGTGTGTTGTGCAA TGG3' 5'CTCCATTCCACCCCTGCCCTTT3'	5A CLIP. Fig. 4 B, 4C and 5A CLIP. Fig. 4 B, 4C and
Axl-In9-RP Axl-E10-RP Axl-In10-1-FP Axl-In10-1-RP Axl-In10-2-FP	' 5'AAGGGAGTGAGGGGTGTGGCAC G3' 5'GAGAAACATGAAAGGGATGTGC 3' 5'TCCTCCTCACATCCATCCCTCTC 3' 5'GAATGAGAAGTGTGTTGTGCAA TGG3' 5'CTCCATTCCACCCCTGCCCTTT3'	5A CLIP. Fig. 4 B, 4C and 5A CLIP. Fig. 4 B, 4C and 5A
Axl-In9-RP Axl-E10-RP Axl-In10-1-FP Axl-In10-1-RP Axl-In10-2-FP Axl-In10-2-RP	' 5'AAGGGAGTGAGGGGTGTGGCAC G3' 5'GAGAAACATGAAAAGGGATGTGC 3' 5'TCCTCCTCACATCCATCCCTCTC 3' 5'GAATGAGAAGTGTGTTGTGCAA TGG3' 5'CTCCATTCCACCCCTGCCCTTT3' 5'AGGGGCATGGTAAGCATATACA	5A CLIP. Fig. 4 B, 4C and 5A CLIP. Fig. 4 B, 4C and
Axl-In9-RP Axl-E10-RP Axl-In10-1-FP Axl-In10-1-RP Axl-In10-2-FP Axl-In10-2-RP	' 5'AAGGGAGTGAGGGGTGTGGCAC G3' 5'GAGAAACATGAAAGGGATGTGC 3' 5'TCCTCCTCACATCCATCCCTCTC 3' 5'GAATGAGAAGTGTGTTGTGCAA TGG3' 5'CTCCATTCCACCCCTGCCCTTT3' 5'AGGGGCATGGTAAGCATATACA G3'	5A CLIP. Fig. 4 B, 4C and 5A
Axl-In9-RP Axl-E10-RP Axl-In10-1-FP Axl-In10-1-RP Axl-In10-2-FP Axl-In10-2-RP Axl-In10-3-FP	' 5'AAGGGAGTGAGGGGTGTGGCAC G3' 5'GAGAAACATGAAAAGGGATGTGC 3' 5'TCCTCCTCACATCCATCCCTCTC 3' 5'GAATGAGAAGTGTGTTGTGCAA TGG3' 5'CTCCATTCCACCCCTGCCCTTT3' 5'AGGGGCATGGTAAGCATATACA G3' 5'TCTCTCCCTCCCATTCCACACTC	5A CLIP. Fig. 4 B, 4C and 5A
Axl-In9-RP Axl-E10-RP Axl-In10-1-FP Axl-In10-1-RP Axl-In10-2-FP Axl-In10-2-RP Axl-In10-3-FP	' 5'AAGGGAGTGAGGGGTGTGGCAC G3' 5'GAGAAACATGAAAAGGGATGTGC 3' 5'TCCTCCTCACATCCATCCCTCTC 3' 5'GAATGAGAAGTGTGTTGTGCAA TGG3' 5'CTCCATTCCACCCCTGCCCTTT3' 5'AGGGGCATGGTAAGCATATACA G3' 5'TCTCTCCCTCCCATTCCACACTC 3'	5A CLIP. Fig. 4 B, 4C and 5A

	GG3'	5A
Bold of <i>Axl-L</i> -OR	F-HR-FP/RP are the homologous sequences of	f pMXs-Flag vector: Bold of

Bold of *Axt-L*-ORF-HR-FP/RP are the homologous sequences of pMAS-Flag vector; **Bold** of Axt-mini-HR-FP/RP and Axt-minigene-MS2-FP/RP are the homologous sequences of pcDNA3.1-(+) vector; The underlined <u>GCCACC</u> is the Kozak sequence (Applied to pMXs-*Axt-L* and pMXs-*Axt-S* plasmids); The Double underline "<u>T</u>" <u>or</u> "<u>A</u>" represents the mutation site (Applied to Construction of mutant pcDNA3.1-Axt-minigene); The wavy line marks <u>GAATTC</u> and <u>CTCGAG</u> are the cleavage sites of *Eco*R Iand *Xho* I, respectively.