Genotype ^a	Number of plants showing		χ_2 test ^c
	Fe overaccumulation	No Fe overaccumulation	
	in stele ^b	in stele	
All F2 plants	14	44	0.02
frd3/frd3	9	2	
<i>frd3/frd3</i> <i>frd3</i> /FRD3 ^{Sha}	5	34	
FRD3 ^{Sha} /FRD3 ^{Sha}	0	8	

Table S3. Segregation analysis of the Fe overaccumulation trait in the F2 plants issuing from a cross between Shahdara and *frd3-7*.

a. Genotype determined for the presence or absence of T-DNA using primers LBb1 and FRD3exon12R or FRD3exon7F and FRD3exon12R, respectively.

b. Fe overaccumulation is visualized by Perls' stain [21] of intact roots of plants grown on compost for 3 weeks.

c. Chi₂ analysis of the segregation of Fe overaccumulation trait in the F2 progeny, H0 hypothesis was that this trait is under the control of one monogenic recessive locus.