```
fpf-dom_functionality  THM

⊢  ∀A:Type, B:(A→Type), eq1,eq2:EqDecider(A), f:a:A fp-> B(a), x:A.
   x ∈ dom(f) = x ∈ dom(f)
  by Auto THEN Unfold `fpf-dom` 0 THEN Analyze -2 THEN Reduce 0
     THEN
     AutoBoolCase deq-member(eq1;x;d)
     THEN
     AutoBoolCase deq-member(eq2;x;d)
     THEN
     All
     (RWO
      Thm* ∀eq:EqDecider(A), L:A List, x:A.
           deq-member(eq;x;L) ⟺ (x ∈ L)
      {assert_DASH_deq_DASH_member})
END
```