```
closed_pred_addprime  THM

⊢  ∀Q:Fmla. closed_pred((Q)') ⟺ closed_pred(Q)
| by Unfolds ``pred closed_pred pred_addprime`` 0
THEN Auto

|    THEN All (RW ColMemberC)
THEN All (Unfold `closed_rel`)
|
|\
| 1. Q : Collection(rel())
| 2. ∀r:rel().
|    (∃r@0:rel(). r@0 ∈ Q & r = (r@0)') ⇒ rel_free_vars(r) = nil
| 3. r : rel()
| 4. r ∈ Q
| ⊢  rel_free_vars(r) = nil
|   by InstLemma `rel_free_vars_addprime` [r]
|
|      THENM RevHypSubst (-1) 0
| THEN Auto
| THEN BackThruSomeHyp
|
|      THEN AutoInstConcl []
| THEN Auto
|
.\
. 1. Q : Collection(rel())
. 2. ∀r:rel(). r ∈ Q ⇒ rel_free_vars(r) = nil
. 3. r : rel()
. 4. ∃r@0:rel(). r@0 ∈ Q & r = (r@0)'
. ⊢  rel_free_vars(r) = nil
.   by ExRepD THEN SubstFor r 0
.
.      THEN InstLemma `rel_free_vars_addprime` [r@0]
.
.      THENM HypSubst (-1) 0
. THEN Auto
. THEN BackThruSomeHyp
.
.      THEN Auto
END
```