```
incl_aux2_quo  THM

⊢  ∀n:{1...}, m:ℕn, E:(ℕn→ℕn→Prop).
|  (EquivRel x,y:ℕn. x E y) ⇒
|  (∀z:x,y:ℕm//(x E y). z ∈ x,y:ℕn//(x E y))  by UnivCD
|
|\
| 1. n : {1...}
| 2. m : ℕn
| 3. E : ℕn→ℕn→Prop
| 4. EquivRel x,y:ℕn. x E y
| 5. z : x,y:ℕm//(x E y)
| ⊢  z ∈ x,y:ℕn//(x E y)  by SetupInclusion 5
| |
| ⊢  z = z  by Analyze 5
| |
| 5. z1 : ℕm
| 6. z2 : ℕm
| 7. z1 E z2
| ⊢  z1 = z2  by Analyze
|
.\
. 1. n : {1...}
. 2. m : ℕn
. 3. E : ℕn→ℕn→Prop
. 4. EquivRel x,y:ℕn. x E y
. ⊢  EquivRel x,y:ℕm. x E y
.   by BackThru
.      Thm* ∀n:{1...}, m:ℕn, E:(ℕn→ℕn→Prop).
.           (EquivRel x,y:ℕn. x E y) ⇒ (EquivRel x,y:ℕm. x E y)
.      {rest_equi_rel}
END
```