Roger Chetelat

1. LA3475 = M-82, a California/Mediterranean processing tomato cultivar (parent of the pennellii introgression line pop.)

2. LA4504 = NC EBR-1, a fresh market variety from North Carolina (and parent of a tomato x pimpinellifolium RIL population) (Majid Foolad's group at Penn State) – NOT IN STOCK?

3. LA2706 = Moneymaker, a vintage fresh market tomato variety from England

4. LA3008 = San Marzano, a vintage canning tomato variety from Italy

5. LA4355 = Gold Nugget, a cherry tomato bred for Oregon

6. LA0410 = landrace from Guayaquil, Ecuador

7. LA0480 = S. pimpinellifolium from southern Peru

8. LA1589 = S. pimpinellifolium from central Peru (parent of a BC-RIL pop, and used for sequencing)

9. LA1684 = S. pimpinellifolium from northwestern Peru

10. LA2176 = S. pimp. from northeastern Peru

11. LA2093 = S. pimp. from southwestern Ecuador (parent of the ~150 line RIL pop in #2 above)

12. LA1547 = S. pimp. from northern Ecuador (and highest elevation for the species)

Other possibilities:

13. LA4345 = Heinz 1706, a processing tomato from Ohio (and the variety that was used for the reference genome sequence) - most similar to #1. Can exclude or include.

14. LA4024 = E-6203, a processing tomato from California (and a parent in the S. habrochaites IL pop.) -- most similar to #1

<http://tgrc.ucdavis.edu/Data/Acc/dataframe.aspx?start=AccSearch.aspx&navstart=nav.html>

LA3475

LA4345

LA2706

LA3008

LA4355

LA0410

LA0480

LA1589

LA1684

LA2176

LA2093

LA1547

2. LA4504 = NC EBR-1, a fresh market variety from North Carolina (and parent of a tomato x pimpinellifolium RIL population) (Majid Foolad's group at Penn State) – UNAVAILABLE

I think you may be referring to the RIL set developed by Elaine Graham when she was a student in my lab. The tomato parent she used was NC 23E-2(93) and the pimp parent was LA1269. There were only 77 RILs in this set, and I don't know what happened to them.

Tomato genome sequence DB: solgenomics.net

decide which NIL parent to use. S. habrochaites is known to carry Botrytis resistance so you may want to use E-6203, the parent of the S. habro NILs, rather than M82.