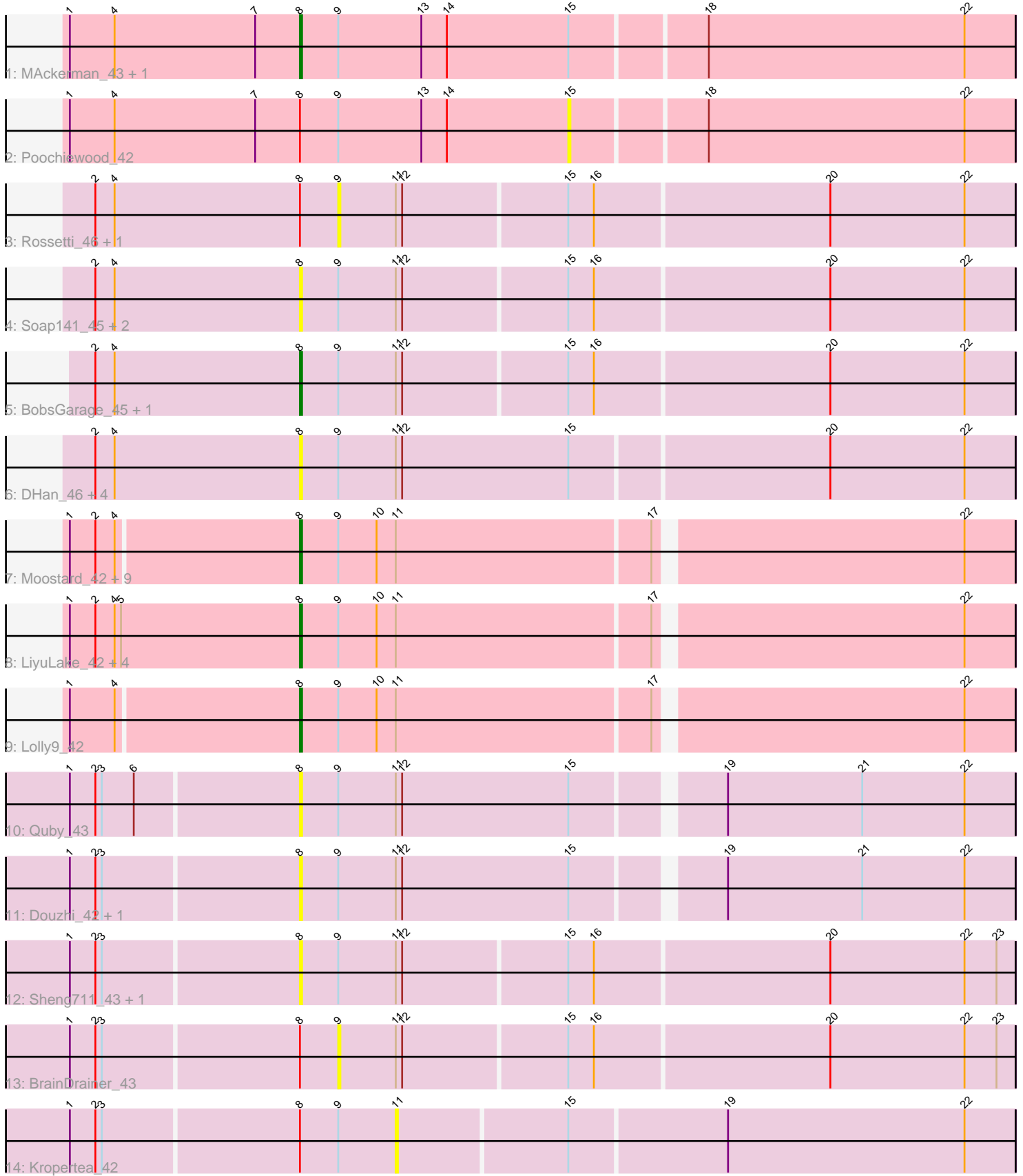


Pham 224727



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 224727 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224727 has 38 members, 26 are drafts.

Phages represented in each track:

- Track 1 : MAckerman_43, CicholasNage_43
- Track 2 : Poochiewood_42
- Track 3 : Rossetti_46, Underpass_45
- Track 4 : Soap141_45, Sarshaun_45, Hafay_45
- Track 5 : BobsGarage_45, SoJulia_46
- Track 6 : DHan_46, ZhongYanYuan_43, Claus_45, DanBing_44, Baoshan_43
- Track 7 : Moostard_42, TriFive_42, Samty_42, Snenia_42, Kingsolomon_42, Finnry_42, Nicholas_42, Jobypre_42, Red305_42, Bellis_42
- Track 8 : LiyuLake_42, DuncansLeg_42, Ellson_42, KirDoubleO7_40, BourbonZero_41
- Track 9 : Lolly9_42
- Track 10 : Quby_43
- Track 11 : Douzhi_42, FarmResident_43
- Track 12 : Sheng711_43, PYPDinur_41
- Track 13 : BrainDrainer_43
- Track 14 : Kropertea_42

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 8, it was called in 12 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Baoshan_43, Bellis_42, BobsGarage_45, BourbonZero_41, CicholasNage_43, Claus_45, DHan_46, DanBing_44, Douzhi_42, DuncansLeg_42, Ellson_42, FarmResident_43, Finnry_42, Hafay_45, Jobypre_42, Kingsolomon_42, KirDoubleO7_40, LiyuLake_42, Lolly9_42, MAckerman_43, Moostard_42, Nicholas_42, PYPDinur_41, Quby_43, Red305_42, Samty_42, Sarshaun_45, Sheng711_43, Snenia_42, SoJulia_46, Soap141_45, TriFive_42, ZhongYanYuan_43,

Genes that have the "Most Annotated" start but do not call it:

- BrainDrainer_43, Kropertea_42, Poochiewood_42, Rossetti_46, Underpass_45,

Genes that do not have the "Most Annotated" start:

-

Summary by start number:

Start 8:

- Found in 38 of 38 (100.0%) of genes in pham
- Manual Annotations of this start: 12 of 12
- Called 86.8% of time when present
- Phage (with cluster) where this start called: Baoshan_43 (L2), Bellis_42 (L3), BobsGarage_45 (L2), BourbonZero_41 (L3), CicholasNage_43 (L1), Claus_45 (L2), DHan_46 (L2), DanBing_44 (L2), Douzhi_42 (L4), DuncansLeg_42 (L3), Ellson_42 (L3), FarmResident_43 (L4), Finnry_42 (L3), Hafay_45 (L2), Jobypre_42 (L3), Kingsolomon_42 (L3), KirDoubleO7_40 (L3), LiyuLake_42 (L3), Lolly9_42 (L3), MAckerman_43 (L1), Moostard_42 (L3), Nicholas_42 (L3), PYPDinur_41 (L4), Quby_43 (L4), Red305_42 (L3), Samty_42 (L3), Sarshaun_45 (L2), Sheng711_43 (L4), Snenia_42 (L3), SoJulia_46 (L2), Soap141_45 (L2), TriFive_42 (L3), ZhongYanYuan_43 (L2),

Start 9:

- Found in 38 of 38 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 7.9% of time when present
- Phage (with cluster) where this start called: BrainDrainer_43 (L4), Rossetti_46 (L2), Underpass_45 (L2),

Start 11:

- Found in 35 of 38 (92.1%) of genes in pham
- No Manual Annotations of this start.
- Called 2.9% of time when present
- Phage (with cluster) where this start called: Kropertea_42 (L4),

Start 15:

- Found in 22 of 38 (57.9%) of genes in pham
- No Manual Annotations of this start.
- Called 4.5% of time when present
- Phage (with cluster) where this start called: Pochiewood_42 (L1),

Summary by clusters:

There are 4 clusters represented in this pham: L4, L2, L3, L1,

Info for manual annotations of cluster L1:

- Start number 8 was manually annotated 2 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 8 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L3:

- Start number 8 was manually annotated 9 times for cluster L3.

Gene Information:

Gene: Baoshan_43 Start: 35304, Stop: 35633, Start Num: 8

Candidate Starts for Baoshan_43:

(2, 35208), (4, 35217), (Start: 8 @35304 has 12 MA's), (9, 35322), (11, 35349), (12, 35352), (15, 35430), (20, 35547), (22, 35610),

Gene: Bellis_42 Start: 35732, Stop: 36055, Start Num: 8

Candidate Starts for Bellis_42:

(1, 35627), (2, 35639), (4, 35648), (Start: 8 @35732 has 12 MA's), (9, 35750), (10, 35768), (11, 35777), (17, 35894), (22, 36032),

Gene: BobsGarage_45 Start: 35443, Stop: 35772, Start Num: 8

Candidate Starts for BobsGarage_45:

(2, 35347), (4, 35356), (Start: 8 @35443 has 12 MA's), (9, 35461), (11, 35488), (12, 35491), (15, 35566), (16, 35578), (20, 35686), (22, 35749),

Gene: BourbonZero_41 Start: 35717, Stop: 36040, Start Num: 8

Candidate Starts for BourbonZero_41:

(1, 35609), (2, 35621), (4, 35630), (5, 35633), (Start: 8 @35717 has 12 MA's), (9, 35735), (10, 35753), (11, 35762), (17, 35879), (22, 36017),

Gene: BrainDrainer_43 Start: 34388, Stop: 34699, Start Num: 9

Candidate Starts for BrainDrainer_43:

(1, 34265), (2, 34277), (3, 34280), (Start: 8 @34370 has 12 MA's), (9, 34388), (11, 34415), (12, 34418), (15, 34493), (16, 34505), (20, 34613), (22, 34676), (23, 34691),

Gene: CicholasNage_43 Start: 34148, Stop: 34477, Start Num: 8

Candidate Starts for CicholasNage_43:

(1, 34040), (4, 34061), (7, 34127), (Start: 8 @34148 has 12 MA's), (9, 34166), (13, 34205), (14, 34217), (15, 34274), (18, 34334), (22, 34454),

Gene: Claus_45 Start: 35462, Stop: 35791, Start Num: 8

Candidate Starts for Claus_45:

(2, 35366), (4, 35375), (Start: 8 @35462 has 12 MA's), (9, 35480), (11, 35507), (12, 35510), (15, 35588), (20, 35705), (22, 35768),

Gene: DHan_46 Start: 35403, Stop: 35732, Start Num: 8

Candidate Starts for DHan_46:

(2, 35307), (4, 35316), (Start: 8 @35403 has 12 MA's), (9, 35421), (11, 35448), (12, 35451), (15, 35529), (20, 35646), (22, 35709),

Gene: DanBing_44 Start: 35295, Stop: 35624, Start Num: 8

Candidate Starts for DanBing_44:

(2, 35199), (4, 35208), (Start: 8 @35295 has 12 MA's), (9, 35313), (11, 35340), (12, 35343), (15, 35421), (20, 35538), (22, 35601),

Gene: Douzhi_42 Start: 34231, Stop: 34554, Start Num: 8

Candidate Starts for Douzhi_42:

(1, 34126), (2, 34138), (3, 34141), (Start: 8 @34231 has 12 MA's), (9, 34249), (11, 34276), (12, 34279), (15, 34357), (19, 34420), (21, 34483), (22, 34531),

Gene: DuncansLeg_42 Start: 35754, Stop: 36077, Start Num: 8

Candidate Starts for DuncansLeg_42:

(1, 35646), (2, 35658), (4, 35667), (5, 35670), (Start: 8 @35754 has 12 MA's), (9, 35772), (10, 35790), (11, 35799), (17, 35916), (22, 36054),

Gene: Ellson_42 Start: 35730, Stop: 36053, Start Num: 8

Candidate Starts for Ellson_42:

(1, 35622), (2, 35634), (4, 35643), (5, 35646), (Start: 8 @35730 has 12 MA's), (9, 35748), (10, 35766), (11, 35775), (17, 35892), (22, 36030),

Gene: FarmResident_43 Start: 34169, Stop: 34492, Start Num: 8

Candidate Starts for FarmResident_43:

(1, 34064), (2, 34076), (3, 34079), (Start: 8 @34169 has 12 MA's), (9, 34187), (11, 34214), (12, 34217), (15, 34295), (19, 34358), (21, 34421), (22, 34469),

Gene: Finnry_42 Start: 35733, Stop: 36056, Start Num: 8

Candidate Starts for Finnry_42:

(1, 35628), (2, 35640), (4, 35649), (Start: 8 @35733 has 12 MA's), (9, 35751), (10, 35769), (11, 35778), (17, 35895), (22, 36033),

Gene: Hafay_45 Start: 35477, Stop: 35806, Start Num: 8

Candidate Starts for Hafay_45:

(2, 35381), (4, 35390), (Start: 8 @35477 has 12 MA's), (9, 35495), (11, 35522), (12, 35525), (15, 35600), (16, 35612), (20, 35720), (22, 35783),

Gene: Jobypre_42 Start: 35730, Stop: 36053, Start Num: 8

Candidate Starts for Jobypre_42:

(1, 35625), (2, 35637), (4, 35646), (Start: 8 @35730 has 12 MA's), (9, 35748), (10, 35766), (11, 35775), (17, 35892), (22, 36030),

Gene: Kingsolomon_42 Start: 35730, Stop: 36053, Start Num: 8

Candidate Starts for Kingsolomon_42:

(1, 35625), (2, 35637), (4, 35646), (Start: 8 @35730 has 12 MA's), (9, 35748), (10, 35766), (11, 35775), (17, 35892), (22, 36030),

Gene: KirDoubleO7_40 Start: 35758, Stop: 36081, Start Num: 8

Candidate Starts for KirDoubleO7_40:

(1, 35650), (2, 35662), (4, 35671), (5, 35674), (Start: 8 @35758 has 12 MA's), (9, 35776), (10, 35794), (11, 35803), (17, 35920), (22, 36058),

Gene: Kropertea_42 Start: 34315, Stop: 34599, Start Num: 11

Candidate Starts for Kropertea_42:

(1, 34165), (2, 34177), (3, 34180), (Start: 8 @34270 has 12 MA's), (9, 34288), (11, 34315), (15, 34393), (19, 34465), (22, 34576),

Gene: LiyuLake_42 Start: 35720, Stop: 36043, Start Num: 8

Candidate Starts for LiyuLake_42:

(1, 35612), (2, 35624), (4, 35633), (5, 35636), (Start: 8 @35720 has 12 MA's), (9, 35738), (10, 35756), (11, 35765), (17, 35882), (22, 36020),

Gene: Lolly9_42 Start: 35541, Stop: 35864, Start Num: 8

Candidate Starts for Lolly9_42:

(1, 35436), (4, 35457), (Start: 8 @35541 has 12 MA's), (9, 35559), (10, 35577), (11, 35586), (17, 35703), (22, 35841),

Gene: MAckerman_43 Start: 34117, Stop: 34446, Start Num: 8

Candidate Starts for MAckerman_43:

(1, 34009), (4, 34030), (7, 34096), (Start: 8 @34117 has 12 MA's), (9, 34135), (13, 34174), (14, 34186), (15, 34243), (18, 34303), (22, 34423),

Gene: Moostard_42 Start: 35732, Stop: 36055, Start Num: 8

Candidate Starts for Moostard_42:

(1, 35627), (2, 35639), (4, 35648), (Start: 8 @35732 has 12 MA's), (9, 35750), (10, 35768), (11, 35777), (17, 35894), (22, 36032),

Gene: Nicholas_42 Start: 35730, Stop: 36053, Start Num: 8

Candidate Starts for Nicholas_42:

(1, 35625), (2, 35637), (4, 35646), (Start: 8 @35730 has 12 MA's), (9, 35748), (10, 35766), (11, 35775), (17, 35892), (22, 36030),

Gene: PYPDinur_41 Start: 34231, Stop: 34560, Start Num: 8

Candidate Starts for PYPDinur_41:

(1, 34126), (2, 34138), (3, 34141), (Start: 8 @34231 has 12 MA's), (9, 34249), (11, 34276), (12, 34279), (15, 34354), (16, 34366), (20, 34474), (22, 34537), (23, 34552),

Gene: Pochiewood_42 Start: 34224, Stop: 34427, Start Num: 15

Candidate Starts for Pochiewood_42:

(1, 33990), (4, 34011), (7, 34077), (Start: 8 @34098 has 12 MA's), (9, 34116), (13, 34155), (14, 34167), (15, 34224), (18, 34284), (22, 34404),

Gene: Quby_43 Start: 34125, Stop: 34448, Start Num: 8

Candidate Starts for Quby_43:

(1, 34020), (2, 34032), (3, 34035), (6, 34050), (Start: 8 @34125 has 12 MA's), (9, 34143), (11, 34170), (12, 34173), (15, 34251), (19, 34314), (21, 34377), (22, 34425),

Gene: Red305_42 Start: 35730, Stop: 36053, Start Num: 8

Candidate Starts for Red305_42:

(1, 35625), (2, 35637), (4, 35646), (Start: 8 @35730 has 12 MA's), (9, 35748), (10, 35766), (11, 35775), (17, 35892), (22, 36030),

Gene: Rossetti_46 Start: 36009, Stop: 36320, Start Num: 9

Candidate Starts for Rossetti_46:

(2, 35895), (4, 35904), (Start: 8 @35991 has 12 MA's), (9, 36009), (11, 36036), (12, 36039), (15, 36114), (16, 36126), (20, 36234), (22, 36297),

Gene: Samty_42 Start: 35731, Stop: 36054, Start Num: 8

Candidate Starts for Samty_42:

(1, 35626), (2, 35638), (4, 35647), (Start: 8 @35731 has 12 MA's), (9, 35749), (10, 35767), (11, 35776), (17, 35893), (22, 36031),

Gene: Sarshaun_45 Start: 35477, Stop: 35806, Start Num: 8

Candidate Starts for Sarshaun_45:

(2, 35381), (4, 35390), (Start: 8 @35477 has 12 MA's), (9, 35495), (11, 35522), (12, 35525), (15, 35600), (16, 35612), (20, 35720), (22, 35783),

Gene: Sheng711_43 Start: 34231, Stop: 34560, Start Num: 8

Candidate Starts for Sheng711_43:

(1, 34126), (2, 34138), (3, 34141), (Start: 8 @34231 has 12 MA's), (9, 34249), (11, 34276), (12, 34279), (15, 34354), (16, 34366), (20, 34474), (22, 34537), (23, 34552),

Gene: Snenia_42 Start: 35731, Stop: 36054, Start Num: 8

Candidate Starts for Snenia_42:

(1, 35626), (2, 35638), (4, 35647), (Start: 8 @35731 has 12 MA's), (9, 35749), (10, 35767), (11, 35776), (17, 35893), (22, 36031),

Gene: SoJulia_46 Start: 35703, Stop: 36032, Start Num: 8

Candidate Starts for SoJulia_46:

(2, 35607), (4, 35616), (Start: 8 @35703 has 12 MA's), (9, 35721), (11, 35748), (12, 35751), (15, 35826), (16, 35838), (20, 35946), (22, 36009),

Gene: Soap141_45 Start: 35477, Stop: 35806, Start Num: 8

Candidate Starts for Soap141_45:

(2, 35381), (4, 35390), (Start: 8 @35477 has 12 MA's), (9, 35495), (11, 35522), (12, 35525), (15, 35600), (16, 35612), (20, 35720), (22, 35783),

Gene: TriFive_42 Start: 35730, Stop: 36053, Start Num: 8

Candidate Starts for TriFive_42:

(1, 35625), (2, 35637), (4, 35646), (Start: 8 @35730 has 12 MA's), (9, 35748), (10, 35766), (11, 35775), (17, 35892), (22, 36030),

Gene: Underpass_45 Start: 35462, Stop: 35773, Start Num: 9

Candidate Starts for Underpass_45:

(2, 35348), (4, 35357), (Start: 8 @35444 has 12 MA's), (9, 35462), (11, 35489), (12, 35492), (15, 35567), (16, 35579), (20, 35687), (22, 35750),

Gene: ZhongYanYuan_43 Start: 35304, Stop: 35633, Start Num: 8

Candidate Starts for ZhongYanYuan_43:

(2, 35208), (4, 35217), (Start: 8 @35304 has 12 MA's), (9, 35322), (11, 35349), (12, 35352), (15, 35430), (20, 35547), (22, 35610),