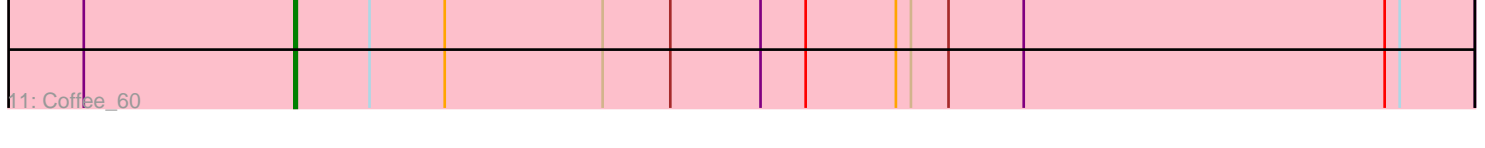
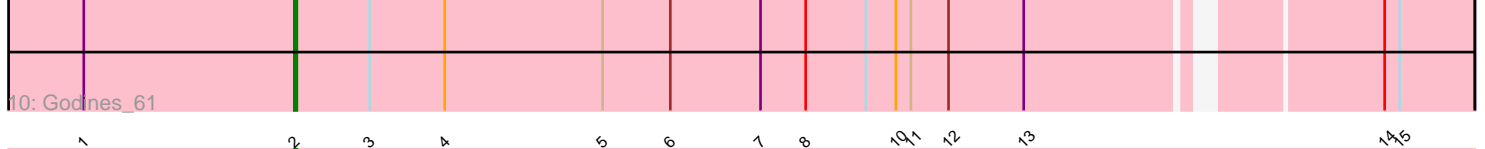
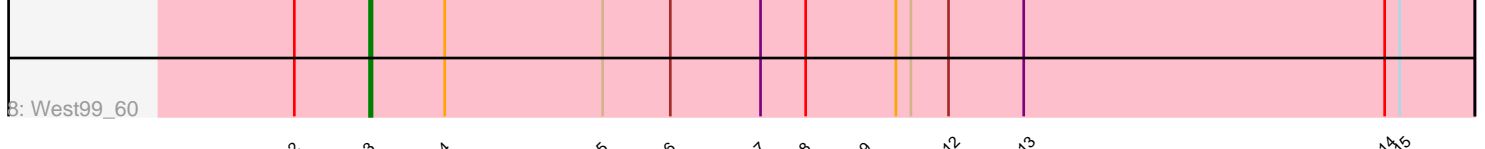
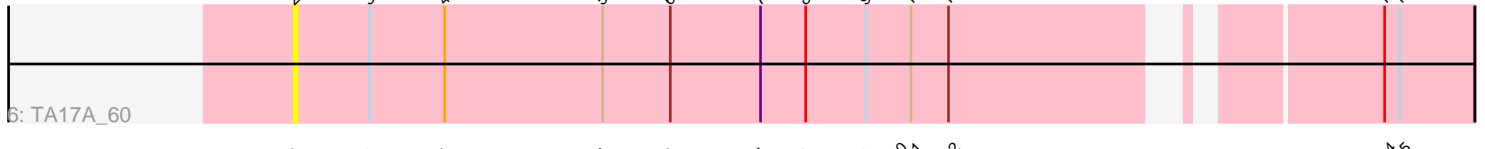
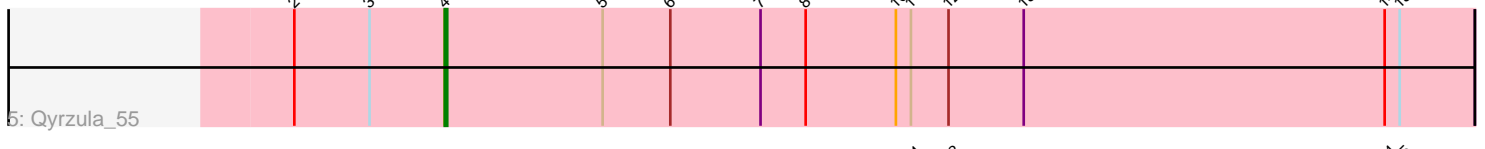
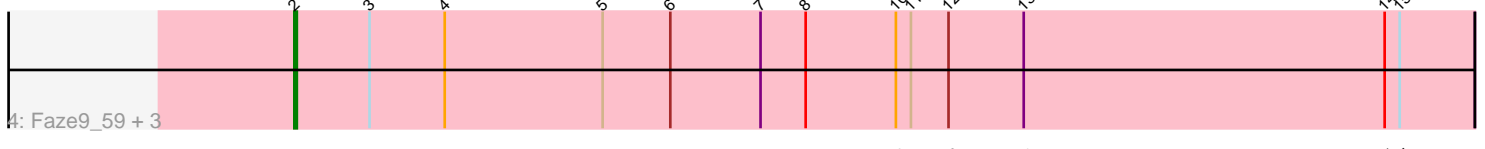
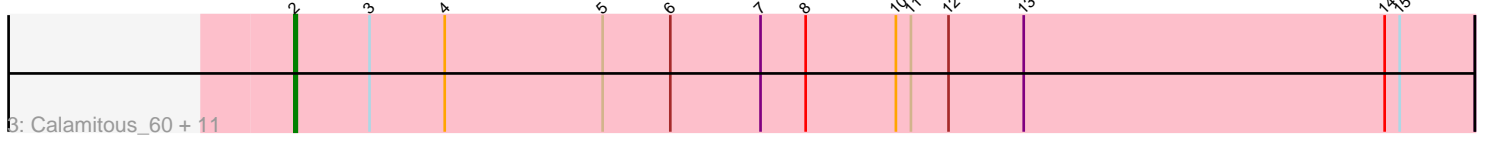
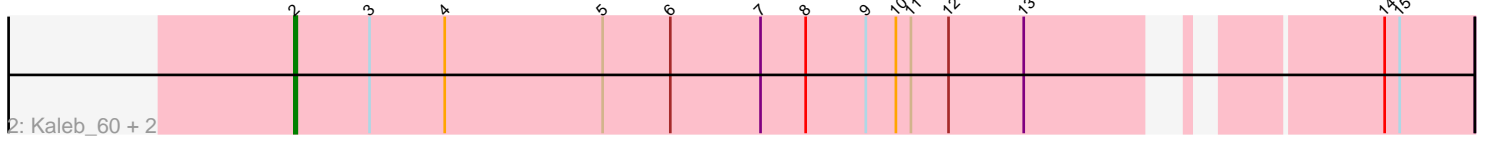
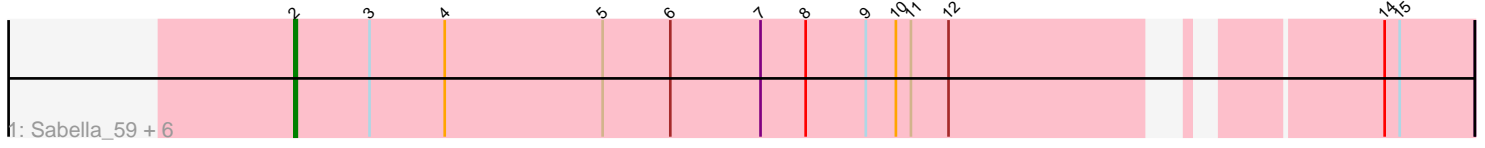


Pham 176417



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 176417 Report

This analysis was run 11/02/24 on database version 579.

Pham number 176417 has 35 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Sabella_59, Brownie5_60, Rosebush_59, Rhinoforte_60, Tres_60, Tinciduntolum_61, Hedgerow_60
- Track 2 : Kaleb_60, Eaglehorse_60, ItsyBitsy1_60
- Track 3 : Calamitous_60, Kheth_60, LizLemon_60, Lars_60, Bananafish_60, Lephleur_60, Ares_60, Opia_60, Holeinone_60, Arbiter_59, Glass_60, FrenchFry_60
- Track 4 : Faze9_59, Allegro_60, Phantasmagoria_60, Blocker23_60
- Track 5 : Qyrzula_55
- Track 6 : TA17A_60
- Track 7 : Boyle_60
- Track 8 : West99_60
- Track 9 : MasterPo_60, Laurie_60, Vic9_61
- Track 10 : Godines_61
- Track 11 : Coffee_60

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

The start number called the most often in the published annotations is 2, it was called in 30 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Allegro_60, Arbiter_59, Ares_60, Bananafish_60, Blocker23_60, Boyle_60, Brownie5_60, Calamitous_60, Coffee_60, Eaglehorse_60, Faze9_59, FrenchFry_60, Glass_60, Godines_61, Hedgerow_60, Holeinone_60, ItsyBitsy1_60, Kaleb_60, Kheth_60, Lars_60, Laurie_60, Lephleur_60, LizLemon_60, MasterPo_60, Opia_60, Phantasmagoria_60, Rhinoforte_60, Rosebush_59, Sabella_59, TA17A_60, Tinciduntolum_61, Tres_60, Vic9_61,

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

- Qyrzula_55, West99_60,

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

-

Summary by start number:

Start 2:

- Found in 35 of 35 (100.0%) of genes in pham
- Manual Annotations of this start: 30 of 32
- Called 94.3% of time when present
- Phage (with cluster) where this start called: Allegro_60 (B2), Arbiter_59 (B2), Ares_60 (B2), Bananafish_60 (B2), Blocker23_60 (B2), Boyle_60 (B2), Brownie5_60 (B2), Calamitous_60 (B2), Coffee_60 (B2), Eaglehorse_60 (B2), Faze9_59 (B2), FrenchFry_60 (B2), Glass_60 (B2), Godines_61 (B2), Hedgerow_60 (B2), Holeinone_60 (B2), ItsyBitsy1_60 (B2), Kaleb_60 (B2), Kheth_60 (B2), Lars_60 (B2), Laurie_60 (B2), Lephleur_60 (B2), LizLemon_60 (B2), MasterPo_60 (B2), Opia_60 (B2), Phantasmagoria_60 (B2), Rhinoforte_60 (B2), Rosebush_59 (B2), Sabella_59 (B2), TA17A_60 (B2), Tinciduntolum_61 (B2), Tres_60 (B2), Vic9_61 (B2),

Start 3:

- Found in 35 of 35 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 2.9% of time when present
- Phage (with cluster) where this start called: West99_60 (B2),

Start 4:

- Found in 35 of 35 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 2.9% of time when present
- Phage (with cluster) where this start called: Qyrzula_55 (B2),

Summary by clusters:

There is one cluster represented in this pham: B2

Info for manual annotations of cluster B2:

- Start number 2 was manually annotated 30 times for cluster B2.
- Start number 3 was manually annotated 1 time for cluster B2.
- Start number 4 was manually annotated 1 time for cluster B2.

Gene Information:

Gene: Allegro_60 Start: 53809, Stop: 53339, Start Num: 2

Candidate Starts for Allegro_60:

(Start: 2 @53809 has 30 MA's), (Start: 3 @53779 has 1 MA's), (Start: 4 @53749 has 1 MA's), (5, 53686), (6, 53659), (7, 53623), (8, 53605), (10, 53569), (11, 53563), (12, 53548), (13, 53518), (14, 53374), (15, 53368),

Gene: Arbiter_59 Start: 53921, Stop: 53451, Start Num: 2

Candidate Starts for Arbiter_59:

(Start: 2 @53921 has 30 MA's), (Start: 3 @53891 has 1 MA's), (Start: 4 @53861 has 1 MA's), (5, 53798), (6, 53771), (7, 53735), (8, 53717), (10, 53681), (11, 53675), (12, 53660), (13, 53630), (14, 53486), (15, 53480),

Gene: Ares_60 Start: 53890, Stop: 53420, Start Num: 2

Candidate Starts for Ares_60:

(Start: 2 @53890 has 30 MA's), (Start: 3 @53860 has 1 MA's), (Start: 4 @53830 has 1 MA's), (5, 53767), (6, 53740), (7, 53704), (8, 53686), (10, 53650), (11, 53644), (12, 53629), (13, 53599), (14, 53455), (15, 53449),

Gene: Bananafish_60 Start: 53821, Stop: 53351, Start Num: 2

Candidate Starts for Bananafish_60:

(Start: 2 @53821 has 30 MA's), (Start: 3 @53791 has 1 MA's), (Start: 4 @53761 has 1 MA's), (5, 53698), (6, 53671), (7, 53635), (8, 53617), (10, 53581), (11, 53575), (12, 53560), (13, 53530), (14, 53386), (15, 53380),

Gene: Blocker23_60 Start: 53931, Stop: 53461, Start Num: 2

Candidate Starts for Blocker23_60:

(Start: 2 @53931 has 30 MA's), (Start: 3 @53901 has 1 MA's), (Start: 4 @53871 has 1 MA's), (5, 53808), (6, 53781), (7, 53745), (8, 53727), (10, 53691), (11, 53685), (12, 53670), (13, 53640), (14, 53496), (15, 53490),

Gene: Boyle_60 Start: 53930, Stop: 53490, Start Num: 2

Candidate Starts for Boyle_60:

(Start: 2 @53930 has 30 MA's), (Start: 3 @53900 has 1 MA's), (Start: 4 @53870 has 1 MA's), (5, 53807), (6, 53780), (7, 53744), (8, 53726), (9, 53702), (10, 53690), (11, 53684), (12, 53669), (14, 53525), (15, 53519),

Gene: Brownie5_60 Start: 53940, Stop: 53500, Start Num: 2

Candidate Starts for Brownie5_60:

(Start: 2 @53940 has 30 MA's), (Start: 3 @53910 has 1 MA's), (Start: 4 @53880 has 1 MA's), (5, 53817), (6, 53790), (7, 53754), (8, 53736), (9, 53712), (10, 53700), (11, 53694), (12, 53679), (14, 53535), (15, 53529),

Gene: Calamitous_60 Start: 53820, Stop: 53350, Start Num: 2

Candidate Starts for Calamitous_60:

(Start: 2 @53820 has 30 MA's), (Start: 3 @53790 has 1 MA's), (Start: 4 @53760 has 1 MA's), (5, 53697), (6, 53670), (7, 53634), (8, 53616), (10, 53580), (11, 53574), (12, 53559), (13, 53529), (14, 53385), (15, 53379),

Gene: Coffee_60 Start: 53932, Stop: 53462, Start Num: 2

Candidate Starts for Coffee_60:

(1, 54016), (Start: 2 @53932 has 30 MA's), (Start: 3 @53902 has 1 MA's), (Start: 4 @53872 has 1 MA's), (5, 53809), (6, 53782), (7, 53746), (8, 53728), (10, 53692), (11, 53686), (12, 53671), (13, 53641), (14, 53497), (15, 53491),

Gene: Eaglehorse_60 Start: 53852, Stop: 53400, Start Num: 2

Candidate Starts for Eaglehorse_60:

(Start: 2 @53852 has 30 MA's), (Start: 3 @53822 has 1 MA's), (Start: 4 @53792 has 1 MA's), (5, 53729), (6, 53702), (7, 53666), (8, 53648), (9, 53624), (10, 53612), (11, 53606), (12, 53591), (13, 53561), (14, 53435), (15, 53429),

Gene: Faze9_59 Start: 53955, Stop: 53485, Start Num: 2

Candidate Starts for Faze9_59:

(Start: 2 @53955 has 30 MA's), (Start: 3 @53925 has 1 MA's), (Start: 4 @53895 has 1 MA's), (5, 53832), (6, 53805), (7, 53769), (8, 53751), (10, 53715), (11, 53709), (12, 53694), (13, 53664), (14, 53520), (15, 53514),

Gene: FrenchFry_60 Start: 53931, Stop: 53461, Start Num: 2

Candidate Starts for FrenchFry_60:

(Start: 2 @53931 has 30 MA's), (Start: 3 @53901 has 1 MA's), (Start: 4 @53871 has 1 MA's), (5, 53808), (6, 53781), (7, 53745), (8, 53727), (10, 53691), (11, 53685), (12, 53670), (13, 53640), (14, 53496), (15, 53490),

Gene: Glass_60 Start: 53933, Stop: 53463, Start Num: 2

Candidate Starts for Glass_60:

(Start: 2 @53933 has 30 MA's), (Start: 3 @53903 has 1 MA's), (Start: 4 @53873 has 1 MA's), (5, 53810), (6, 53783), (7, 53747), (8, 53729), (10, 53693), (11, 53687), (12, 53672), (13, 53642), (14, 53498), (15, 53492),

Gene: Godines_61 Start: 54198, Stop: 53746, Start Num: 2

Candidate Starts for Godines_61:

(1, 54282), (Start: 2 @54198 has 30 MA's), (Start: 3 @54168 has 1 MA's), (Start: 4 @54138 has 1 MA's), (5, 54075), (6, 54048), (7, 54012), (8, 53994), (9, 53970), (10, 53958), (11, 53952), (12, 53937), (13, 53907), (14, 53781), (15, 53775),

Gene: Hedgerow_60 Start: 53915, Stop: 53475, Start Num: 2

Candidate Starts for Hedgerow_60:

(Start: 2 @53915 has 30 MA's), (Start: 3 @53885 has 1 MA's), (Start: 4 @53855 has 1 MA's), (5, 53792), (6, 53765), (7, 53729), (8, 53711), (9, 53687), (10, 53675), (11, 53669), (12, 53654), (14, 53510), (15, 53504),

Gene: Holeinone_60 Start: 53787, Stop: 53317, Start Num: 2

Candidate Starts for Holeinone_60:

(Start: 2 @53787 has 30 MA's), (Start: 3 @53757 has 1 MA's), (Start: 4 @53727 has 1 MA's), (5, 53664), (6, 53637), (7, 53601), (8, 53583), (10, 53547), (11, 53541), (12, 53526), (13, 53496), (14, 53352), (15, 53346),

Gene: ItsyBitsy1_60 Start: 54065, Stop: 53613, Start Num: 2

Candidate Starts for ItsyBitsy1_60:

(Start: 2 @54065 has 30 MA's), (Start: 3 @54035 has 1 MA's), (Start: 4 @54005 has 1 MA's), (5, 53942), (6, 53915), (7, 53879), (8, 53861), (9, 53837), (10, 53825), (11, 53819), (12, 53804), (13, 53774), (14, 53648), (15, 53642),

Gene: Kaleb_60 Start: 53939, Stop: 53499, Start Num: 2

Candidate Starts for Kaleb_60:

(Start: 2 @53939 has 30 MA's), (Start: 3 @53909 has 1 MA's), (Start: 4 @53879 has 1 MA's), (5, 53816), (6, 53789), (7, 53753), (8, 53735), (9, 53711), (10, 53699), (11, 53693), (12, 53678), (13, 53648), (14, 53534), (15, 53528),

Gene: Kheth_60 Start: 53852, Stop: 53382, Start Num: 2

Candidate Starts for Kheth_60:

(Start: 2 @53852 has 30 MA's), (Start: 3 @53822 has 1 MA's), (Start: 4 @53792 has 1 MA's), (5, 53729), (6, 53702), (7, 53666), (8, 53648), (10, 53612), (11, 53606), (12, 53591), (13, 53561), (14, 53417), (15, 53411),

Gene: Lars_60 Start: 53917, Stop: 53447, Start Num: 2

Candidate Starts for Lars_60:

(Start: 2 @53917 has 30 MA's), (Start: 3 @53887 has 1 MA's), (Start: 4 @53857 has 1 MA's), (5, 53794), (6, 53767), (7, 53731), (8, 53713), (10, 53677), (11, 53671), (12, 53656), (13, 53626), (14, 53482), (15, 53476),

Gene: Laurie_60 Start: 53614, Stop: 53174, Start Num: 2

Candidate Starts for Laurie_60:

(Start: 2 @53614 has 30 MA's), (Start: 3 @53584 has 1 MA's), (Start: 4 @53554 has 1 MA's), (5, 53491), (6, 53464), (7, 53428), (8, 53410), (9, 53386), (12, 53353), (13, 53323), (14, 53209), (15, 53203),

Gene: Lephleur_60 Start: 53826, Stop: 53356, Start Num: 2

Candidate Starts for Lephleur_60:

(Start: 2 @53826 has 30 MA's), (Start: 3 @53796 has 1 MA's), (Start: 4 @53766 has 1 MA's), (5, 53703), (6, 53676), (7, 53640), (8, 53622), (10, 53586), (11, 53580), (12, 53565), (13, 53535), (14, 53391), (15, 53385),

Gene: LizLemon_60 Start: 53942, Stop: 53472, Start Num: 2

Candidate Starts for LizLemon_60:

(Start: 2 @53942 has 30 MA's), (Start: 3 @53912 has 1 MA's), (Start: 4 @53882 has 1 MA's), (5, 53819), (6, 53792), (7, 53756), (8, 53738), (10, 53702), (11, 53696), (12, 53681), (13, 53651), (14, 53507), (15, 53501),

Gene: MasterPo_60 Start: 53808, Stop: 53368, Start Num: 2

Candidate Starts for MasterPo_60:

(Start: 2 @53808 has 30 MA's), (Start: 3 @53778 has 1 MA's), (Start: 4 @53748 has 1 MA's), (5, 53685), (6, 53658), (7, 53622), (8, 53604), (9, 53580), (12, 53547), (13, 53517), (14, 53403), (15, 53397),

Gene: Opia_60 Start: 53832, Stop: 53362, Start Num: 2

Candidate Starts for Opia_60:

(Start: 2 @53832 has 30 MA's), (Start: 3 @53802 has 1 MA's), (Start: 4 @53772 has 1 MA's), (5, 53709), (6, 53682), (7, 53646), (8, 53628), (10, 53592), (11, 53586), (12, 53571), (13, 53541), (14, 53397), (15, 53391),

Gene: Phantasmagoria_60 Start: 53830, Stop: 53360, Start Num: 2

Candidate Starts for Phantasmagoria_60:

(Start: 2 @53830 has 30 MA's), (Start: 3 @53800 has 1 MA's), (Start: 4 @53770 has 1 MA's), (5, 53707), (6, 53680), (7, 53644), (8, 53626), (10, 53590), (11, 53584), (12, 53569), (13, 53539), (14, 53395), (15, 53389),

Gene: Qyrzula_55 Start: 53883, Stop: 53473, Start Num: 4

Candidate Starts for Qyrzula_55:

(Start: 2 @53943 has 30 MA's), (Start: 3 @53913 has 1 MA's), (Start: 4 @53883 has 1 MA's), (5, 53820), (6, 53793), (7, 53757), (8, 53739), (10, 53703), (11, 53697), (12, 53682), (13, 53652), (14, 53508), (15, 53502),

Gene: Rhinoforte_60 Start: 53909, Stop: 53469, Start Num: 2

Candidate Starts for Rhinoforte_60:

(Start: 2 @53909 has 30 MA's), (Start: 3 @53879 has 1 MA's), (Start: 4 @53849 has 1 MA's), (5, 53786), (6, 53759), (7, 53723), (8, 53705), (9, 53681), (10, 53669), (11, 53663), (12, 53648), (14, 53504), (15, 53498),

Gene: Rosebush_59 Start: 53936, Stop: 53496, Start Num: 2

Candidate Starts for Rosebush_59:

(Start: 2 @53936 has 30 MA's), (Start: 3 @53906 has 1 MA's), (Start: 4 @53876 has 1 MA's), (5, 53813), (6, 53786), (7, 53750), (8, 53732), (9, 53708), (10, 53696), (11, 53690), (12, 53675), (14, 53531), (15, 53525),

Gene: Sabella_59 Start: 53772, Stop: 53332, Start Num: 2

Candidate Starts for Sabella_59:

(Start: 2 @53772 has 30 MA's), (Start: 3 @53742 has 1 MA's), (Start: 4 @53712 has 1 MA's), (5, 53649), (6, 53622), (7, 53586), (8, 53568), (9, 53544), (10, 53532), (11, 53526), (12, 53511), (14, 53367), (15, 53361),

Gene: TA17A_60 Start: 53777, Stop: 53337, Start Num: 2

Candidate Starts for TA17A_60:

(Start: 2 @53777 has 30 MA's), (Start: 3 @53747 has 1 MA's), (Start: 4 @53717 has 1 MA's), (5, 53654), (6, 53627), (7, 53591), (8, 53573), (9, 53549), (11, 53531), (12, 53516), (14, 53372), (15, 53366),

Gene: Tinciduntolum_61 Start: 53939, Stop: 53499, Start Num: 2

Candidate Starts for Tinciduntolum_61:

(Start: 2 @53939 has 30 MA's), (Start: 3 @53909 has 1 MA's), (Start: 4 @53879 has 1 MA's), (5, 53816), (6, 53789), (7, 53753), (8, 53735), (9, 53711), (10, 53699), (11, 53693), (12, 53678), (14, 53534), (15, 53528),

Gene: Tres_60 Start: 53793, Stop: 53353, Start Num: 2

Candidate Starts for Tres_60:

(Start: 2 @53793 has 30 MA's), (Start: 3 @53763 has 1 MA's), (Start: 4 @53733 has 1 MA's), (5, 53670), (6, 53643), (7, 53607), (8, 53589), (9, 53565), (10, 53553), (11, 53547), (12, 53532), (14, 53388), (15, 53382),

Gene: Vic9_61 Start: 54638, Stop: 54198, Start Num: 2

Candidate Starts for Vic9_61:

(Start: 2 @54638 has 30 MA's), (Start: 3 @54608 has 1 MA's), (Start: 4 @54578 has 1 MA's), (5, 54515), (6, 54488), (7, 54452), (8, 54434), (9, 54410), (12, 54377), (13, 54347), (14, 54233), (15, 54227),

Gene: West99_60 Start: 53936, Stop: 53496, Start Num: 3

Candidate Starts for West99_60:

(Start: 2 @53966 has 30 MA's), (Start: 3 @53936 has 1 MA's), (Start: 4 @53906 has 1 MA's), (5, 53843), (6, 53816), (7, 53780), (8, 53762), (10, 53726), (11, 53720), (12, 53705), (13, 53675), (14, 53531), (15, 53525),