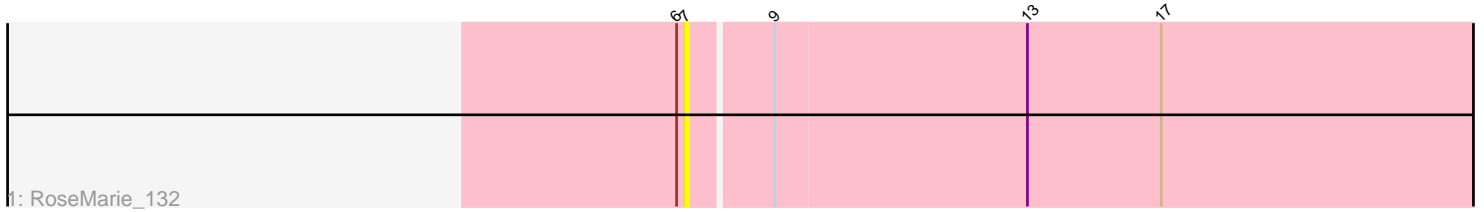
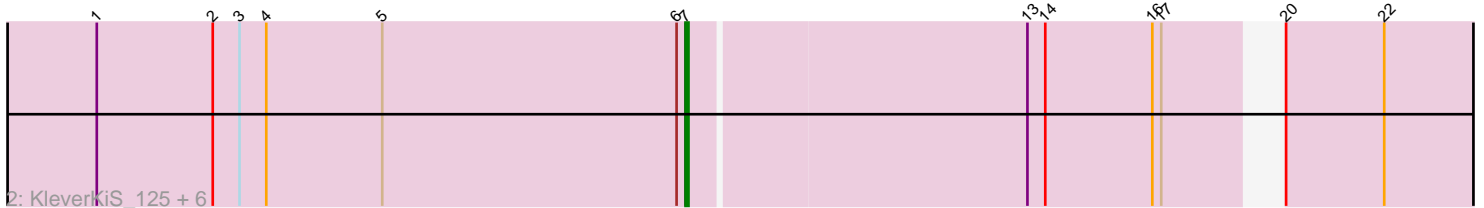


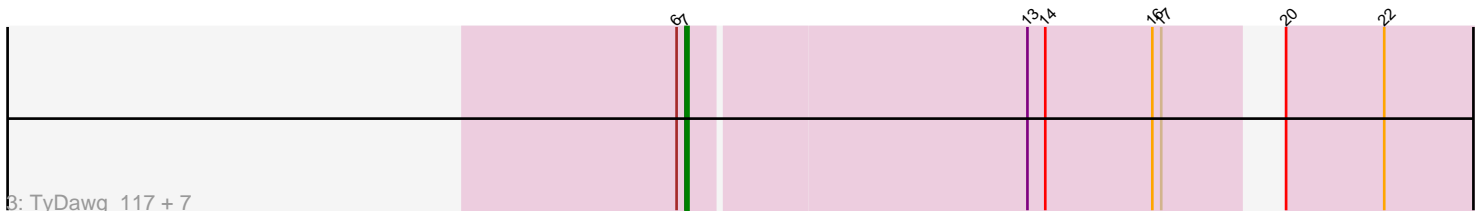
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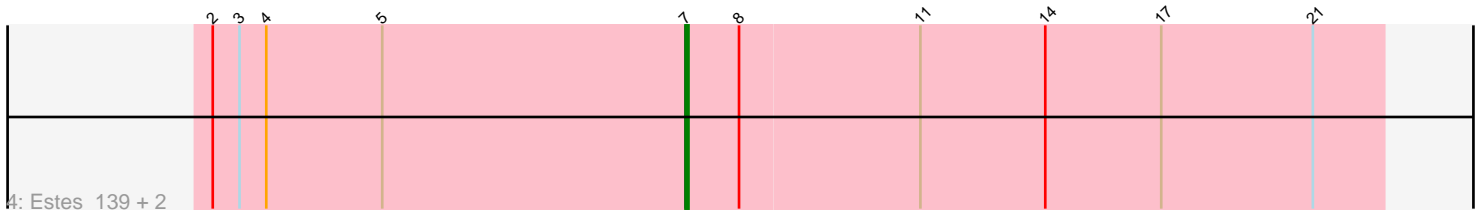
1: RoseMarie_132



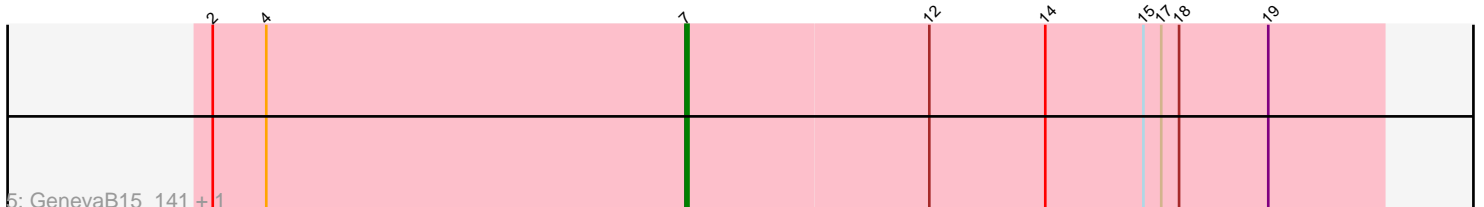
2: KleverKiS_125 + 6



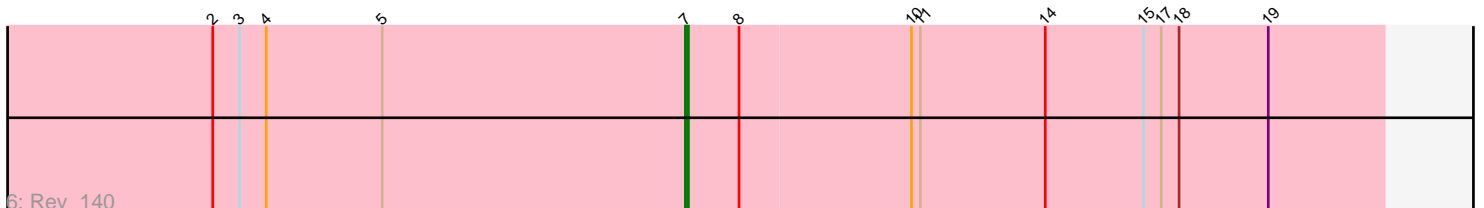
3: TyDawg_117 + 7



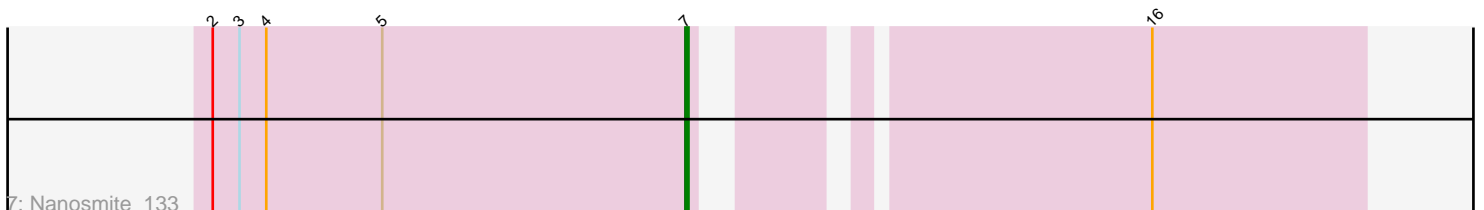
4: Estes_139 + 2



5: GenevaB15_141 + 1



6: Rey_140



7: Nanosmite_133

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 224866 Report

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

Pham number 224866 has 23 members, 4 are drafts.

Phages represented in each track:

- Track 1 : RoseMarie_132
- Track 2 : KleverKiS_125, Skinny_128, FreakyGoo_122, PegLeg_126, Glaske16_125, LilhomieP_122, SlimJimmy_122
- Track 3 : TyDawg_117, Izel_121, Auspice_122, Dulcita_123, Bongo_122, Bricole_124, IPhane7_120, Diminimus_123
- Track 4 : Estes_139, MrMagoo_141, GardenSalsa_139
- Track 5 : GenevaB15_141, Aziz_138
- Track 6 : Rey_140
- Track 7 : Nanosmite_133

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

The start number called the most often in the published annotations is 7, it was called in 19 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Auspice_122, Aziz_138, Bongo_122, Bricole_124, Diminimus_123, Dulcita_123, Estes_139, FreakyGoo_122, GardenSalsa_139, GenevaB15_141, Glaske16_125, IPhane7_120, Izel_121, KleverKiS_125, LilhomieP_122, MrMagoo_141, Nanosmite_133, PegLeg_126, Rey_140, RoseMarie_132, Skinny_128, SlimJimmy_122, TyDawg_117,

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

-

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

-

Summary by start number:

Start 7:

- Found in 23 of 23 (100.0%) of genes in pham
- Manual Annotations of this start: 19 of 19
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Auspice_122 (M1), Aziz_138 (M2), Bongo_122 (M1), Bricole_124 (M1), Diminimus_123 (M1), Dulcita_123 (M1), Estes_139 (M2), FreakyGoo_122 (M1), GardenSalsa_139 (M2), GenevaB15_141 (M2), Glaske16_125 (M1), IPHane7_120 (M1), Izel_121 (M1), KleverKiS_125 (M1), LilhomieP_122 (M1), MrMagoo_141 (M2), Nanosmite_133 (M3), PegLeg_126 (M1), Rey_140 (M2), RoseMarie_132 (M), Skinny_128 (M1), SlimJimmy_122 (M1), TyDawg_117 (M1),

Summary by clusters:

There are 4 clusters represented in this pham: M, M1, M3, M2,

Info for manual annotations of cluster M1:

- Start number 7 was manually annotated 12 times for cluster M1.

Info for manual annotations of cluster M2:

- Start number 7 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:

- Start number 7 was manually annotated 1 time for cluster M3.

Gene Information:

Gene: Auspice_122 Start: 64944, Stop: 65192, Start Num: 7

Candidate Starts for Auspice_122:

(6, 64941), (Start: 7 @64944 has 19 MA's), (13, 65055), (14, 65061), (16, 65097), (17, 65100), (20, 65127), (22, 65160),

Gene: Aziz_138 Start: 66425, Stop: 66658, Start Num: 7

Candidate Starts for Aziz_138:

(2, 66266), (4, 66284), (Start: 7 @66425 has 19 MA's), (12, 66506), (14, 66545), (15, 66578), (17, 66584), (18, 66590), (19, 66620),

Gene: Bongo_122 Start: 64560, Stop: 64808, Start Num: 7

Candidate Starts for Bongo_122:

(6, 64557), (Start: 7 @64560 has 19 MA's), (13, 64671), (14, 64677), (16, 64713), (17, 64716), (20, 64743), (22, 64776),

Gene: Bricole_124 Start: 64708, Stop: 64956, Start Num: 7

Candidate Starts for Bricole_124:

(6, 64705), (Start: 7 @64708 has 19 MA's), (13, 64819), (14, 64825), (16, 64861), (17, 64864), (20, 64891), (22, 64924),

Gene: Diminimus_123 Start: 64555, Stop: 64803, Start Num: 7

Candidate Starts for Diminimus_123:

(6, 64552), (Start: 7 @64555 has 19 MA's), (13, 64666), (14, 64672), (16, 64708), (17, 64711), (20, 64738), (22, 64771),

Gene: Dulcita_123 Start: 64556, Stop: 64804, Start Num: 7

Candidate Starts for Dulcita_123:

(6, 64553), (Start: 7 @64556 has 19 MA's), (13, 64667), (14, 64673), (16, 64709), (17, 64712), (20, 64739), (22, 64772),

Gene: Estes_139 Start: 66636, Stop: 66869, Start Num: 7

Candidate Starts for Estes_139:

(2, 66477), (3, 66486), (4, 66495), (5, 66534), (Start: 7 @66636 has 19 MA's), (8, 66654), (11, 66714), (14, 66756), (17, 66795), (21, 66846),

Gene: FreakyGoo_122 Start: 65040, Stop: 65288, Start Num: 7

Candidate Starts for FreakyGoo_122:

(1, 64842), (2, 64881), (3, 64890), (4, 64899), (5, 64938), (6, 65037), (Start: 7 @65040 has 19 MA's), (13, 65151), (14, 65157), (16, 65193), (17, 65196), (20, 65223), (22, 65256),

Gene: GardenSalsa_139 Start: 66767, Stop: 67000, Start Num: 7

Candidate Starts for GardenSalsa_139:

(2, 66608), (3, 66617), (4, 66626), (5, 66665), (Start: 7 @66767 has 19 MA's), (8, 66785), (11, 66845), (14, 66887), (17, 66926), (21, 66977),

Gene: GenevaB15_141 Start: 66425, Stop: 66658, Start Num: 7

Candidate Starts for GenevaB15_141:

(2, 66266), (4, 66284), (Start: 7 @66425 has 19 MA's), (12, 66506), (14, 66545), (15, 66578), (17, 66584), (18, 66590), (19, 66620),

Gene: Glaske16_125 Start: 65673, Stop: 65921, Start Num: 7

Candidate Starts for Glaske16_125:

(1, 65475), (2, 65514), (3, 65523), (4, 65532), (5, 65571), (6, 65670), (Start: 7 @65673 has 19 MA's), (13, 65784), (14, 65790), (16, 65826), (17, 65829), (20, 65856), (22, 65889),

Gene: IPHane7_120 Start: 64560, Stop: 64808, Start Num: 7

Candidate Starts for IPHane7_120:

(6, 64557), (Start: 7 @64560 has 19 MA's), (13, 64671), (14, 64677), (16, 64713), (17, 64716), (20, 64743), (22, 64776),

Gene: Izel_121 Start: 64555, Stop: 64803, Start Num: 7

Candidate Starts for Izel_121:

(6, 64552), (Start: 7 @64555 has 19 MA's), (13, 64666), (14, 64672), (16, 64708), (17, 64711), (20, 64738), (22, 64771),

Gene: KleverKiS_125 Start: 66045, Stop: 66293, Start Num: 7

Candidate Starts for KleverKiS_125:

(1, 65847), (2, 65886), (3, 65895), (4, 65904), (5, 65943), (6, 66042), (Start: 7 @66045 has 19 MA's), (13, 66156), (14, 66162), (16, 66198), (17, 66201), (20, 66228), (22, 66261),

Gene: LilhomieP_122 Start: 65838, Stop: 66086, Start Num: 7

Candidate Starts for LilhomieP_122:

(1, 65640), (2, 65679), (3, 65688), (4, 65697), (5, 65736), (6, 65835), (Start: 7 @65838 has 19 MA's), (13, 65949), (14, 65955), (16, 65991), (17, 65994), (20, 66021), (22, 66054),

Gene: MrMagoo_141 Start: 66768, Stop: 67001, Start Num: 7

Candidate Starts for MrMagoo_141:

(2, 66609), (3, 66618), (4, 66627), (5, 66666), (Start: 7 @66768 has 19 MA's), (8, 66786), (11, 66846), (14, 66888), (17, 66927), (21, 66978),

Gene: Nanosmite_133 Start: 66419, Stop: 66619, Start Num: 7

Candidate Starts for Nanosmite_133:

(2, 66260), (3, 66269), (4, 66278), (5, 66317), (Start: 7 @66419 has 19 MA's), (16, 66548),

Gene: PegLeg_126 Start: 65722, Stop: 65970, Start Num: 7

Candidate Starts for PegLeg_126:

(1, 65524), (2, 65563), (3, 65572), (4, 65581), (5, 65620), (6, 65719), (Start: 7 @65722 has 19 MA's), (13, 65833), (14, 65839), (16, 65875), (17, 65878), (20, 65905), (22, 65938),

Gene: Rey_140 Start: 66057, Stop: 66290, Start Num: 7

Candidate Starts for Rey_140:

(2, 65898), (3, 65907), (4, 65916), (5, 65955), (Start: 7 @66057 has 19 MA's), (8, 66075), (10, 66132), (11, 66135), (14, 66177), (15, 66210), (17, 66216), (18, 66222), (19, 66252),

Gene: RoseMarie_132 Start: 68678, Stop: 68941, Start Num: 7

Candidate Starts for RoseMarie_132:

(6, 68675), (Start: 7 @68678 has 19 MA's), (9, 68705), (13, 68789), (17, 68834),

Gene: Skinny_128 Start: 66838, Stop: 67086, Start Num: 7

Candidate Starts for Skinny_128:

(1, 66640), (2, 66679), (3, 66688), (4, 66697), (5, 66736), (6, 66835), (Start: 7 @66838 has 19 MA's), (13, 66949), (14, 66955), (16, 66991), (17, 66994), (20, 67021), (22, 67054),

Gene: SlimJimmy_122 Start: 65547, Stop: 65795, Start Num: 7

Candidate Starts for SlimJimmy_122:

(1, 65349), (2, 65388), (3, 65397), (4, 65406), (5, 65445), (6, 65544), (Start: 7 @65547 has 19 MA's), (13, 65658), (14, 65664), (16, 65700), (17, 65703), (20, 65730), (22, 65763),

Gene: TyDawg_117 Start: 64563, Stop: 64811, Start Num: 7

Candidate Starts for TyDawg_117:

(6, 64560), (Start: 7 @64563 has 19 MA's), (13, 64674), (14, 64680), (16, 64716), (17, 64719), (20, 64746), (22, 64779),