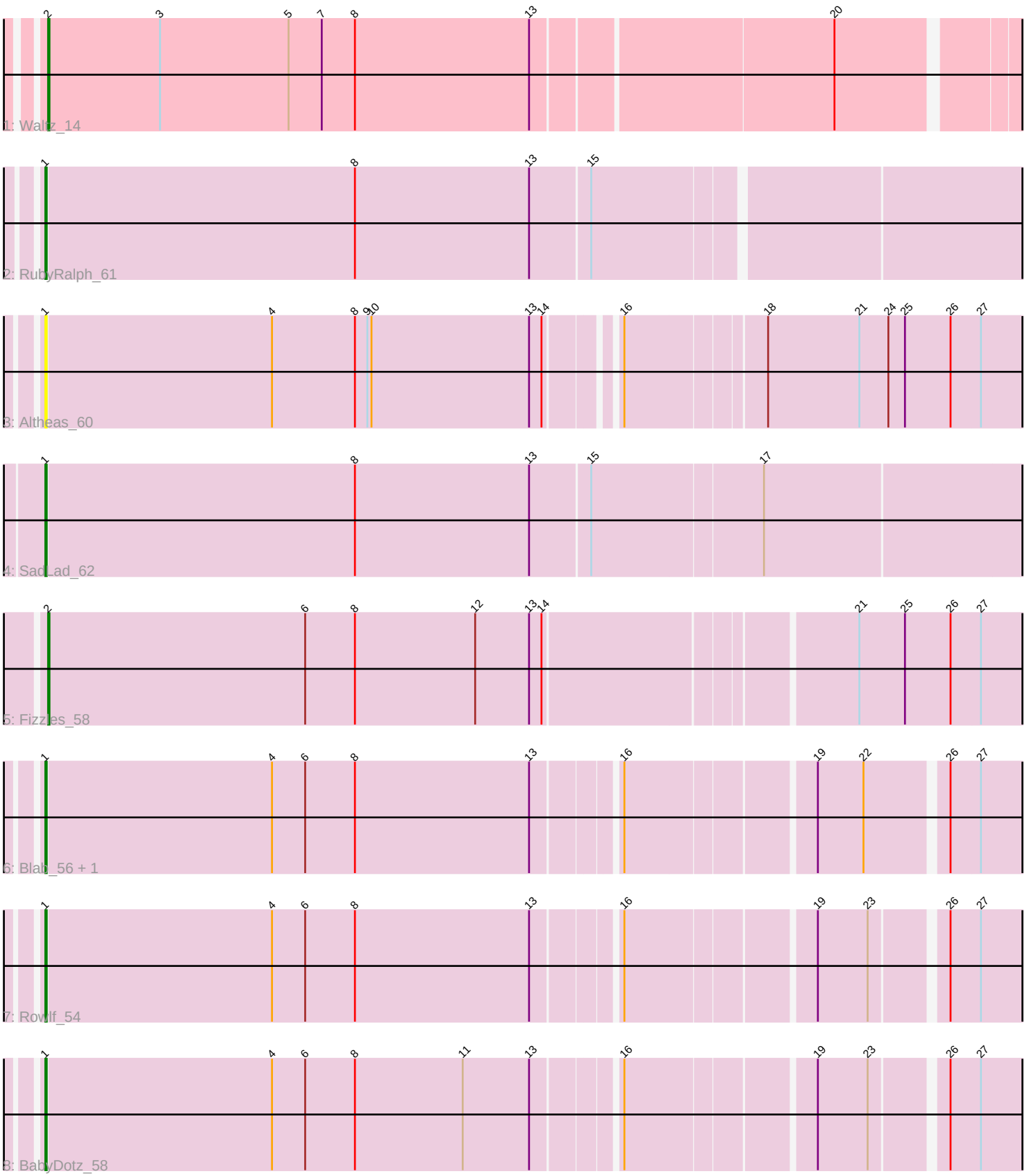
# Pham 218555


2
3
5
7
8
13
20
1: Waltz_14
1
8
13
15
2: RubyRalph_61
1
4
8
9
10
13
14
16
18
21
24
25
26
27
3: Altheas_60
1
8
13
15
17
4: SadLad_62
2
6
8
12
13
14
21
25
26
27
5: Fizzles_58
1
4
6
8
13
16
19
22
26
27
6: Blah_56 + 1
1
4
6
8
13
16
19
23
26
27
7: Rowlf_54
1
4
6
8
11
13
16
19
23
26
27
8: BabyDotz_58

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 218555 Report

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

Pham number 218555 has 9 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Waltz_14
• Track 2 : RubyRalph_61
• Track 3 : Altheas_60
• Track 4 : SadLad_62
• Track 5 : Fizzles_58
• Track 6 : Blab_56, AluminumJesus_55
• Track 7 : Rowlf_54
• Track 8 : BabyDotz_58

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

The start number called the most often in the published annotations is 1, it was called in 6 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Altheas_60, AluminumJesus_55, BabyDotz_58, Blab_56, Rowlf_54, RubyRalph_61, SadLad_62,

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

Genes that do not have the "Most Annotated" start:
• Fizzles_58, Waltz_14,

**Summary by start number:**

Start 1:
• Found in 7 of 9 ( 77.8% ) of genes in pham
• Manual Annotations of this start: 6 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altheas_60 (EG), AluminumJesus_55 (EG), BabyDotz_58 (EG), Blab_56 (EG), Rowlf_54 (EG), RubyRalph_61 (EG), SadLad_62 (EG),

Start 2:
• Found in 2 of 9 ( 22.2% ) of genes in pham
• Manual Annotations of this start: 2 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fizzles_58 (EG), Waltz_14 (AL),

**Summary by clusters:**

There are 2 clusters represented in this pham: EG, AL,

Info for manual annotations of cluster AL:
•Start number 2 was manually annotated 1 time for cluster AL.

Info for manual annotations of cluster EG:
•Start number 1 was manually annotated 6 times for cluster EG.
•Start number 2 was manually annotated 1 time for cluster EG.

***Gene Information:***

Gene: Altheas_60 Start: 43871, Stop: 43149, Start Num: 1
Candidate Starts for Altheas_60:
(Start: 1 @43871 has 6 MA's), (4, 43709), (8, 43649), (9, 43640), (10, 43637), (13, 43523), (14, 43514), (16, 43472), (18, 43379), (21, 43313), (24, 43292), (25, 43280), (26, 43247), (27, 43226),

Gene: AluminumJesus_55 Start: 42828, Stop: 42118, Start Num: 1
Candidate Starts for AluminumJesus_55:
(Start: 1 @42828 has 6 MA's), (4, 42666), (6, 42642), (8, 42606), (13, 42480), (16, 42423), (19, 42297), (22, 42264), (26, 42210), (27, 42189),

Gene: BabyDotz_58 Start: 44301, Stop: 43588, Start Num: 1
Candidate Starts for BabyDotz_58:
(Start: 1 @44301 has 6 MA's), (4, 44139), (6, 44115), (8, 44079), (11, 44001), (13, 43953), (16, 43899), (19, 43773), (23, 43737), (26, 43689), (27, 43668),

Gene: Blab_56 Start: 43444, Stop: 42740, Start Num: 1
Candidate Starts for Blab_56:
(Start: 1 @43444 has 6 MA's), (4, 43282), (6, 43258), (8, 43222), (13, 43096), (16, 43042), (19, 42916), (22, 42883), (26, 42829), (27, 42808),

Gene: Fizzles_58 Start: 43354, Stop: 42620, Start Num: 2
Candidate Starts for Fizzles_58:
(Start: 2 @43354 has 2 MA's), (6, 43168), (8, 43132), (12, 43045), (13, 43006), (14, 42997), (21, 42787), (25, 42754), (26, 42721), (27, 42700),

Gene: Rowlf_54 Start: 42772, Stop: 42059, Start Num: 1
Candidate Starts for Rowlf_54:
(Start: 1 @42772 has 6 MA's), (4, 42610), (6, 42586), (8, 42550), (13, 42424), (16, 42370), (19, 42244), (23, 42208), (26, 42160), (27, 42139),

Gene: RubyRalph_61 Start: 45401, Stop: 44676, Start Num: 1
Candidate Starts for RubyRalph_61:

(Start: 1 @45401 has 6 MA's), (8, 45179), (13, 45053), (15, 45011),

Gene: SadLad_62 Start: 46174, Stop: 45440, Start Num: 1
Candidate Starts for SadLad_62:
(Start: 1 @46174 has 6 MA's), (8, 45952), (13, 45826), (15, 45784), (17, 45664),

Gene: Waltz_14 Start: 9797, Stop: 10513, Start Num: 2
Candidate Starts for Waltz_14:
(Start: 2 @9797 has 2 MA's), (3, 9878), (5, 9971), (7, 9995), (8, 10019), (13, 10145), (20, 10352),